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FEEDING STUFFS REPORT
1919

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BUREAU OF CHEMISTRY



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LETTER OF TRANSMITTAL.

Department of Agriculture.

Bureau of Chemistry.

Harrisburg, Pa., April 30, 1920.

Hon. Fred. Rasmussen,
Secretary of Agriculture.
Harrisburg, Pa.

Dear Sir: I have the honor to transmit herewith for your approval a report showing the results of the inspection of Feeding Stuffs during 1919. It includes a list of the brands registered, the tabulated results of chemical analyses and microscopical examinations of each sample obtained by the Special Agents and such additional data believed to be of interest.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,

JAMES W. KELLOGG,
Chief Chemist.



FEEDING STUFFS REPORT

1919

INTRODUCTION.

This report shows the results of the inspection work accomplished during 1919 in the enforcement of the law regulating the sale of concentrated commercial feeding stuffs. For the purpose of inspecting the labeling and selling methods and to obtain samples for analysis, Special Agents of the Department visited 252 towns and cities in 48 counties of the State and obtained 1060 official samples of feeding stuffs. Many localities were visited, including 2 counties where no samples were secured but inspections of the methods of making sales were made where, in order to avoid duplication of work, additional samples of the same brands previously sampled were not obtained. Each of these samples was analyzed for moisture, protein, fat and fiber and examined microscopically to determine whether or not the guarantees claimed were correct and the lists of ingredients or statements of composition were as claimed upon sacks or attached cards, as well as to detect the presence of foreign or prohibited materials. As soon as possible after the analytical work had been completed reports showing the results secured were submitted to the selling agents or dealers, from whom they were obtained and to the manufacturers or importers responsible for their production, calling their attention to violations of the law, where required. These official samples included 652 different brands of feeding stuffs, the output of 246 manufacturing and jobbing companies. In addition to the official samples 305 special samples, submitted by residents of the State, were analyzed during the year, a fee of one dollar (\$1.00) being also received with each sample. Reports of the results obtained together with receipt for the fees were submitted to the sellers upon completion of the work and the fees were paid to the State Treasurer, as required.

During the year 547 manufacturers and importers submitted applications for the registration of the 2401 different brands and kinds of feeding stuffs which were approved and registered with the Department for 1919. The number of registrations so received was the same as those submitted for 1918 and included a slightly smaller number of brands. A number of applications for registration were made which could not be accepted as the feeding stuffs listed were shown to be not in accordance with the requirements. Many of the official samples received and analyzed represented certain brands of feeds being sold in the State for which registration had not been made, as will be noted by referring to the large table showing the detailed results of analyses. The samples of brands not registered are indicated by an asterisk (*) being prefixed to each. A number of these brands in addition to not being registered were, as will be noted, sold contrary to requirements and illegally disposed of by reason of their containing excessive amounts of materials where the fiber exceeding 10.00 per cent., the amount permitted in mixed feeds containing oat hulls, oat meal mill by-product, clipped oat by-product, cottonseed hulls and flax plant refuse, as well as varying proportions of small amounts of whole weed seeds and in a few instances small amounts of rice hulls and peanut hulls.

It may be stated that the character of the feeding stuffs sold in the State during the year, as represented by the samples examined, was good and showed an improvement over the condition prevailing last year, especially with respect to the correctness of the guarantees for protein, fat and fiber. There were a large proportion of "overages" and a less number of samples representing shipments guaranteed with both minimum and maximum guarantees, which in previous years upon analysis failed to meet the higher guarantees, thus being incorrectly labeled and misleading. Of the total number received 974 samples were found to be labeled with the guaranteed analysis and of this number 31 were found to be deficient in protein and 100 in fat. There is, however, considerable room for improvement in the case of the mixed feeds which included 718 samples out of the total number analyzed. Of this number of mixed feeds there were 259 or 36 per cent. of the samples where variations from the compositions claimed were found upon microscopical examinations. These variations were not as a rule of a serious nature and consisted for the most part of the absence of one or more claimed ingredient, the presence of additional ingredients, the substitution of one by-product for another, the presence of small amounts of rice hulls in 5 samples and of peanut hulls in 3 other samples. In addition to these discrepancies in composition there were 139 samples which contained as ingredients either oat hulls, clipped oat by-

product, oat meal mill by-product, flax plant refuse or cottonseed hulls, where the content of crude fiber was found upon analysis to materially exceed 10.00 per cent., the amount permitted in mixed feeds containing these ingredients. In a few cases excessive amounts of these low grade feeding materials were used where the excess fiber was found to be from 5.00 to 12.00 per cent. above the amount permitted. As a result of these variations from the certified analyses and compositions it became necessary during the year to order prosecutions in the case of 51½ per cent. of the samples received where serious violations of the law were found. The retail selling prices, as reported by the Special Agents, showed as a rule increases over the average prices prevailing during 1918. By referring to the comments under the discussion of the analytical results and in the large table showing the detailed analysis of each sample, together with guarantees claimed, these deficiencies and variations from the claimed composition as well as the "overages" for each kind or group of feeding stuffs will be better illustrated.

In the following pages will be found the acknowledgments, a list of the brands of feeding stuffs registered during the year, directions for the analysis of special samples of feeding stuffs, a list of the counties visited and number of official samples secured in each, tables showing the classification of samples analyzed and a summary of deficiencies and average analyses and retail prices, a discussion of the analytical results in the order of their classification and a large table (No. III) showing the detailed analytical results of each sample.

ACKNOWLEDGMENTS.

Acknowledgment is herewith made and thanks extended for the assistance received in carrying out the year's work to Hon. Fred. Rasmussen, Secretary of Agriculture, and G. G. Hutchison, General Agent, as well as to each member of the Bureau staff whose cooperation in the work made possible its successful completion. The immediate supervision of the analytical work was in charge of Mr. V. B. Hausknecht, First Assistant Chemist. Mr. H. E. Gensler had charge of the reception and preparation of samples, subjected every sample received to a microscopical examination, and made check determinations where necessary. The following assistants took part in the analytical work: Messrs. G. J. Kuhlmann, Jr., F. B.

Williams, C. E. Engle, W. E. Huber and W. W. Cassel. Mr. W. E. Huber also had charge of the compilation of the tabulation of results and the major portion of the work in preparing the data for the report.

REGISTRATIONS.

At the beginning of the year or before feeding stuffs are offered for sale in the State it is necessary to register each brand to be sold with the Department upon blanks which are sent to all manufacturers and importers and furnished upon application. No charge is made for registration and no tax tags or stamps are required and no licenses are issued. Early in the year and subsequently during 1919, 547 manufacturing and importing firms filed registrations with the Department covering 2401 different brands and kinds of feeding stuffs. The samples received and analyzed representing brands of feeds not registered during the year, as shown in the large table (No. III) are prefixed by an asterisk (*). The names of the firms from whom registrations were received during 1919 together with the brands and kinds of feeds listed and registered were as follows:

FEEDING STUFFS REGISTERED FOR 1919.

- Acme-Evaus Co., Indianapolis, Ind.
 Acme Alfalfa Molasses Grain Feed,
 Acme Barleycorn Feed,
 Acme Bran,
 Acme Chick Feed, with Grit,
 Acme Chick Feed, without Grit,
 Acme Cracked Corn,
 Acme Dairy Feed,
 Acme Dry Mash,
 Acme Farm Feed,
 Acme Feed,
 Acme Hog Feed,
 Acme Horse & Mule Feed,
 Acme Middlings,
 Acme Scratch Feed, with Grit,
 Acme Stock Feed,
 E.-Z. Scratch Feed, with Grit,
 E.-Z. Scratch Feed, without Grit,
 Homlik Feed.
- Acme Manufacturing Co.; Wheaton, Ill.
 Acme Pig Meal.
- Acme Milling Co.; Olean, N. Y.
 Acme Feed,
 Acme Dry Mash,
 Yellow Corn Feed Meal "S".
- Akron Feed & Milling Co., Akron, Ohio.
 C. O. & B. Stock Feed,
 Portage Corn & Oats Chop,
 Portage Fancy Middlings,
 Portage Stock Feed,
 Portage Yellow Feed Meal,
 Yellow Hominy Feed.

Alexander Hay & Grain Co., Washington, D. C.
Omega Dairy Feed.

Alfocorn Milling Co., East St. Louis, Ill.
Wishbone Scratch Feed.

Allen Milling Co., Niagara Falls, N. Y.
Allen's Full-Nest Mash for Layers,
Allen's Full-Nest Nutro Chick Mash.

Allen & Co., H. S., Pittsburgh, Pa.
Dried Beet Pulp.

Allen & Wheeler Co., The, Troy, Ohio.
Trojan Bran,
Trojan Middlings,
Trojan Mixed Feed.

American Agricultural Chemical Co., The, New York City, N. Y.
Protox Pure Ground Meat Scraps.

American Barley Company, Minneapolis, Minn.
Choice Barley Feed.

American Diamalt Co., The, Cincinnati, Ohio.
Fleischmann's Dried Malt Grains.

American Hominy Co., Indianapolis, Ind.
Hexite Dairy Feed,
Hexite Horse Feed,
Hexite Scratch Feed,
Hexite Scratch Feed with Grit,
Homeo Chick Feed,
Homeo Cracked Corn (screened),
Homeo Cracked Corn (not screened),
Homeo Cracked Corn and Rolled Oats,
Homeo Dairy Feed,
Homeo Dry Mash,
Homeo Hominy Feed,
Homeo Horse Feed,
Homeo Horse and Mule Fattener,
Homeo Jr. Horse Feed,
Homeo Pig & Shoaat Feed,
Homeo Poultry Developer,
Homeo Scratch Feed,
Homcoline Feed,
Maizeline Feed,
Standard Scratch Feed,
Standard Scratch with Grit,
Yellow Feed Meal.

American Linseed Co., New York City, N. Y.
Old Process Oil Meal.

American Maize Products Co., New York City, N. Y.
Cream of Corn Gluten Feed.

American Milling Co., Peoria, Ill.
Amco Alfalfa Molasses Feed,
Amco Old Process Linseed Meal and Old Process Screeuings Oil Feed,
Amco Stock Feed,
Cluck Cluck Scratch Feed,
Cluck Cluck Scratch Feed with 5 Per Cent. Grit,
Kickapoo Horse Feed,
Suerene Calf Meal,
Suerene Chick Feed,
Suerene Chick Feed with 5 Per Cent. Grit,
Suerene Dairy Feed,
Suerene Hog Meal,
Suerene Horse Feed with Alfalfa,
Suerene Pigeon Feed,
Suerene Poultry Mash,
Suerene Scratch Feed,
Suerene Scratch Feed with 5 Per Cent. Grit,
Tip Top Horse Feed with Alfalfa,
Tip Top Sugared Feed.

Anderson Brothers Co., York, Pa.

A. B. C. Chick Feed,
A. B. C. Laying Mash,
A. B. C. Pullet Feed,
A. B. C. Scratch Feed,
Buttermilk Chick Mash,
Buttermilk Laying Mash,
Pigeon Feed,

Animal Products Co., Philadelphia, Pa.

Apco Poultry Meat,
Digester Tankage.

Ansted & Burke Co., The, Springfield, Ohio.

Bran,
Corn & Oats Chop,
Feed Meal,
Humpty Dumpty Chick Feed with Grit,
Humpty Dumpty Chick Feed, no Grit,
Humpty Dumpty Scratch Feed with Grit,
Humpty Dumpty Scratch Feed, no Grit,
Middlings,
Mixed Feed,
Ohio Farm Feed.

Anthracite Brewing Co., Mt. Carmel, Pa.

Brewers' Dried Grains.

Arcady Farms Milling Co., Chicago, Ill.

Arcady Baby Chick Feed,
Arcady Baby Chick Feed with Grit, Shell and Charcoal,
Arcady Calf Meal,
Arcady Chick Feed,
Arcady Chick Feed with Grit and Charcoal,
Arcady Dairy Feed,
Arcady Hog Meal & Charcoal,
Arcady Horse Feed,
Arcady Poultry Feed,
Arcady Poultry Feed with Grit, Shell and Charcoal,
Arcady Stock Feed,
Arco Milk Maker,
Country Gentlemen Horse Feed,
Producers Ready Ration,
Sunkist Cotton-seed Feed.

Archer-Daniels Linseed Co., Buffalo, N. Y.

Old Process Ground Linseed Cake.

Armour Fertilizer Works, Chicago, Ill.

Armour's Blood Meal,
Armour's Meat Meal,

Ashcraft-Wilkinson Co., Atlanta, Ga.

Crown Brand Cotton Seed Meal,
Paramount Brand Cottonseed Feed.

Atkinson Milling Co., Minneapolis, Minn.

Atkinson Watchword (Reddog) Flour,
Atkinson Wheat Bran,
Atkinson Wheat Standard Middlings with Screenings.

Atlantic Export Co., New York City, N. Y.

Doctor Spund Dried Brewers' Grains.

Atlas Cereal Co., Kansas City, Mo.

Argosy Horse and Mule Feed,
Big Bill Horse and Mule Feed,
Cameo Horse and Mule Feed,
Elk Horse and Mule Feed,
Flag Horse and Mule Feed,
Hunkey Alfalfa Molasses Feed,
Its Green Alfalfa Molasses Feed,
Opal Horse and Mule Feed,
Osage Horse and Mule Feed,
Power Horse and Mule Feed,
Prairie Horse and Mule Feed.

Aunt Jemima Mills Company, St. Joseph, Mo.

Hominy Feed,
Net Yellow Corn Chop,
Wheat Bran & Wheat Screenings,
Wheat Brown Shorts,
Wheat Mixed Feed and Wheat Screenings.

Ayer, H. O., Ulster, Pa.,

Laying Mash,
Scratch Grains.

Badenoch Co. J. J., Chicago, Ill.

Badenoch's Stock Feed,
C-Em-Grow Poultry Feed,
C-er-lay Developing Feed, no Grit,
C-er-lay Developing Feed, with Grit,
C-er-lay Fine Chick Feed, no Grit,
C-er-lay Fine Chick Feed, With Grit,
C-er-lay Poultry Feed, no Grit,
C-er-lay Poultry Feed, with Grit,
Daily Egg Poultry Feed, no Grit,
Daily Egg Poultry Feed, with Grit,
Egg-A-Day Dry Mash,
Gloskoat Horse Feed,
Graingold Dairy Ration,
Kumboss Dairy Ration,
Kurvnek Horse Feed,
Milky Way Dairy Ration,
N-Life Horse Feed,

Bailey, E. I., Cleveland, Ohio.

Bailey's B. B. B. Dairy Ration,
Pearl Hominy Feed,
Wheat Bran with not to exceed Mill Run Screenings,
Wheat Middlings.

Baldwin Flour Mills, Minneapolis, Minn.

Baldwin Wheat Bran with not exceeding Mill Run of Ground Screenings,
Baldwin Wheat Flour Middlings with not exceeding Mill Run of Ground Screenings,
Baldwin Wheat Red Dog,
Baldwin Wheat Shorts with not exceeding Mill Run of Ground Screenings,
Wheat Hub Mixed Feed with not exceeding Mill Run of Ground Screenings.

Ballard & Ballard Company, Louisville, Ky.

Ballard's Bran,
Ballard's Kentucky Farm Feed,
Ballard's Mixed Wheat Feed.

Ballard Corn Mills, Louisville, Ky.

Hominy Meal.

Barber Milling Co., Minneapolis, Minn.

Pure Wheat Bran Flakes,
Pure Wheat Middlings with Screenings not to exceed Mill Run.

Baringer, M. F., Philadelphia, Pa.

Choice Cottonseed Meal,
Copra Cake Meal,
Corn Bran,
Dried Brewers' Grains,
Goodlow Cottonseed Feed,
Hominy Feed,
M. F. B. Cottonseed Feed
M. F. B. Old Process Oil Meal,
M. F. B. Prime Cottonseed Meal,
M. F. B. Wheat Bran with Mill Run Screenings,
M. F. B. Wheat Middlings with Mill Run Screenings,
M. F. B. Wheat Mixed Feed with Mill Run Screenings,
Reground Oat Hulls

Barley Foods Company, Morgantown, W. Va.

Barley Feed,
Barley Middlings.

Bartlett Co., J. E., Jackson, Mich.

Farmer Brand Choice Cottonseed Meal,
Farmer Brand Cottonseed Feed,
Farmer Brand Cottonseed Meal,

Farmer Brand Prime Cottonseed Meal,
Farmer Brand "Straight" Cottonseed Feed,
Regreund Mixed Feed

Bast-Fogarty Milling Co., Des Moines, Iowa.
Middlings (Screening not to exceed Mill Run),
Wheat Bran.

Battle & Co., W. P., Memphis, Tenn.
Battle Brand Cotton Seed Feed,
Battle Brand Cotton Seed Meal.

Bauer & Wister, Philadelphia, Penna.
Speeial Horse Feed.

Baugh & Sons Co., Philadelphia, Penna.
Baugh's Meat Meal for Poultry,
Baugh's Speeial Ground Bone for Poultry,
Baugh's XX Beef Scrap for Poultry.

Bay State Milling Co., Winona, Minn.
Bay State Coarse Wheat Bran,
Bay State Fancy Mixed Wheat Feed and Wheat Screenings,
Bay State Fancy White Flour Middlings,
Bay State Rye Middlings,
Bay State Wheat Middlings and Wheat Screenings,
Lowgrade Flour.

Beaeon Feed Company, Inc., The, New York City, N. Y.
Beaeon Chick Feed,
Beaeon Dairy Ration,
Beaeon Horse Feed,
Beaeon Laying Mash,
Beaeon Serateh Grains,
Beaeon Stock Feed,
Chariot Horse Feed,
Chariot Serateh Feed,

Beidler and Co., H., Philadelphia, Penna.
Beidler's Mecea Horse Feed,
Beidler's N-E-G Horse Feed.

Belleville Flour Mills Co., Belleville, Pa.
Corn & Oats Chop.
Wheat Bran,
Wheat Middlings.

Berg Company, The, Philadelphia, Pa.
Berg's 3 Medal Poultry Meat.

Bernet, Craft & Kauffman Mfg. Co., Mt. Carmel, Ill.
Middlings,
Mixed Feed (Bran and Middlings),
Mt. Carmel Bran.

Big Diamond Mills Co., Minneapolis, Minn.
Big Diamond Bran,
Big Diamond Flour Middlings,
Big Diamond Mixed Feed,
Big Diamond Standard Middlings.

Birkett Mills, The, Penn Yan, N. Y.
Buckwheat Offal Feed,
Hominy Meal,
Wheat Bran,
Wheat Middlings.

Blaine, Mackay, Lee Company, North East, Pa.
Mix Feed with Mill Run Screenings,
Wheat Bran with Mill Run Screenings,
Wheat Middlings with Mill Run Screenings.

Blake Milling Co., The, Edwardsville, Ill.
Wheat Bran with Ground Screenings not exceeding Mill Run.

Blamberg Brothers, Inc., Baltimore, Md.
Cornell Brand Chick Feed,
Cornell Brand Developing Mash,

Cornell Brand Dry Mash,
 Cornell Brand Fattening Ration,
 Cornell Brand Growing Feed,
 Cornell Brand Meat and Bone Scraps,
 Cornell Brand No. 1 Pigeon Feed,
 Cornell Brand No. 2 Pigeon Feed,
 Cornell Brand No. 3 Pigeon Feed,
 Cornell Brand No. 4 Pigeon Feed,
 Cornell Brand Scratch Feed,
 Cornell Brand Special Meat and Bone Scrap,
 Cornell Buttermilk Chick Starter,
 Cornell Buttermilk Laying Mash,
 Exlnt Dry Mash,
 Semi-Solid Buttermilk.

Blank & Gottshall, Sunbury, Pa.
 B. & G. Baby Chick Feed,
 B. & G. Chick Feed,
 B. & G. Dairy Food,
 B. & G. Developing Food,
 B. & G. Hen Food,
 B. & G. Horse Food,
 B. & G. Mash Food,
 B. & G. Pigeon Food,
 Corn Bran,
 Rye Middlings,
 Wheat Bran,
 Wheat Middlings.

Blatchford Calf Meal Factory, Waukegan, Ill.
 Blatchford Bar Nun Laying Mash,
 Blatchford Calf Meal,
 Blatchford Dairy Brand Calf Meal,
 Blatchford Egg Mash,
 Blatchford Fill the Basket Egg Mash,
 Blatchford Lamb Meal,
 Blatchford Milk Mash,
 Blatchford Pig Meal,
 Blatchford Topping off Meal.

Blish Milling Co., Seymour, Ind.
 Bull's Eye Mixed Feed.

Boston Molasses Company, Boston, Mass.
 Xtra-Vim Feed.

Bradford & Son, Center Hall, Pa.
 Corn, Oats and Barley Chop.
 Winter Wheat Bran,
 Winter Wheat Middlings.

Braun Rendering Co., Pittsburgh, Pa.
 Meat and Bone.

Brehm, H. F., Waterloo, N. Y.
 Brehm's Beef Scrap and Bone.

Brode & Co., F. W., Memphis, Tenn.
 Dove Brand Cottonseed Meal.
 Jay Brand Cottonseed Feed,
 Owl Brand Cottonseed Meal.

Brooks, George C., Wellsboro, Pa.
 "Brooks Mixture" Dairy Feed,
 State Mixture.

Brown & Fassett, Tunkhannock, Pa.
 B. & F. Calf Meal,
 B. & F. Hog Ration,
 Favorite Dry Mash,
 Scratch Feed.

Buckeye Cereal Co., The, Massillon, Ohio.
 Bar X Dairy Feed,
 Buckeye Scratch Feed,
 Buckeye Stock Feed,
 Energy Horse Feed,
 Malto Dairy Feed.

- Buckeye Cotton Oil Co., The, Cincinnati, Ohio.
 Buco Cottonseed Feed,
 Cottonseed Feed.
- Buchrle Co., The Albert H., Youngstown, Ohio.
 Hi-Quality Corn Feed Meal,
 Hi-Quality Horse Feed.
- Buffalo Cereal Co., Buffalo, N. Y.
 Bufaceco Chick Feed,
 Bufaceco Hominy Feed,
 Bufaceco Horse Feed,
 Bufaceco Intermediate Scratching Grains,
 Bufaceco Laying Mash.
 Bufaceco Pigeon Feed,
 Bufaceco Poultry Mash,
 Bufaceco Scratching Grains,
 Bufaceco Steam Cooked Feed,
 Bufaceco Stock Feed,
 Corn and Oats $\frac{1}{2}$ & $\frac{1}{2}$
 Iroquois Chick Feed,
 Iroquois Poultry Mash,
 Iroquois Scratching Grains
 Target Scratching Grains,
 Yellow Hominy Feed.
- Buffalo Flour Mills, Milton, Pa.
 Cow Feed,
 Hen Food,
 Rye Feed
- Burch, M. E., Elizabethtown, Pa.
 Superior Food Digester.
- Burkholder, John R., Lancaster, Pa.
 "Bovineeda" (Cottonseed Meal and Hulls).
- Bushkill Milling Co., Easton, Pa.
 Clear Grain Scratch Food,
 Mixed Feed,
 Poultry Mash.
- Canuon Valley Milling Co., Minneapolis, Minn.
 Billie Low Grade,
 C. V. Brau with Ground Screenings not exceeding Mill Run,
 C. V. Standard Middlings, Pure Wheat Middlings.
- Canton Feed & Milling Co., The, Canton, Ohio.
 Bako Milk Feed,
 Bako No. 1 C. & O. Feed,
 Bako Scratch Feed.
- Capital City Milling & Grain Co., St. Paul, Minn.
 St. Paul Queen Mixed Feed.
- Cassel and Son, H. B., Philadelphia, Pa.
 Omac Feed,
 Sweet Meal.
- Cataract City Milling Co., Niagara Falls, N. Y.
 Wheat Bran with Ground Screenings not exceeding Mill Run
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
 Wheat White Middlings with Ground Screenings not exceeding Mill Run.
- Cavalier Milling Co., Cavalier, N. D.
 Bran,
 Middlings,
 Mixed Feed.
- Central Alfalfa Feed and Milling Co., Memphis, Tenn.
 Eg-A-Day Poultry Scratch Feed,
 Luck-E-Boy Horse and Mule Feed,
 Pride of Dixie Horse and Mule Feed,
 "Rajah" Horse and Mule Feed.
- Century Milling Co., The, Minneapolis, Minn.
 Berkshire Wheat Flour Middlings.
 Jersey Wheat Bran,
 Poland Wheat Standard Middlings,
 Pure Wheat Red Dog Flour.

- Chamberlin Co., F. B., St. Louis, Mo.
 Chamberlin's Perfect Chick Feed,
 Chamberlin's Perfect Hen Feed,
 Chamberlin's Perfect Mash Egg Feed,
 Chamberlin's Perfect Pigeon Feed,
- Champion Feed Milling Co., Clinton, Iowa.
 Champion Molasses Feed Compound.
- Champion Roller Milling Co., Richmond, Ind.
 Mixed Feed.
- Chapin & Company, Hammond, Ind.
 Acorn Dairy Ration,
 Ajax Flakes (Distillers' Dried Grains),
 Bicorn Hog Feed,
 Centaur Feed,
 Centaur Stock Feed,
 Lactola Dairy Feed,
 Triangle Dairy Feed,
 Unicorn Dairy Ration,
- Chase-Hibbard Corporation, Elmira, N. Y.
 Blue Ribbon Poultry Feed.
- Chesbro Brothers, Atica, N. Y.
 Corn, oats and Barley Feed.
- Christenson Co., C. A., Madelia, Minn.
 Wheat Bran,
 Wheat Flour Middlings,
 Wheat Standard Middlings.
- Christian Mills, The, Minneapolis, Minn.
 Matchless Red Dog Flour,
 Matchless Wheat Bran,
 Matchless Wheat Flour Middlings,
 Matchless Wheat Standard Middlings.
- Churchhill Grain and Seed Co., Buffalo, N. Y.
 Apex Wheat Middlings with Screenings not to exceed Mill Run.
- Circleville Milling Co., Circleville, Ohio.
 Yellow Corn Bran,
 Yellow Cracked Corn,
 Yellow Feed Meal.
- City Flouring Mills, Inc., Muncy, Pa.
 Balanced Ration,
 Bran,
 Buckwheat Feed,
 Corn and Oats Chop,
 Mixed Chop,
 Oil Feed,
 Rye Middlings,
 Scratch Grains,
 Wheat Middlings.
- Claro Milling Co., Waseca, Minn.
 Claro Mixed Feed with Ground Screenings,
 Claro Red Dog Flour,
 Claro Wheat Bran with Ground Screenings,
 Claro Wheat Flour Middlings,
 Claro Wheat Middlings with Ground Screenings,
 Claro Wheat Standard Middlings with Ground Screenings.
- Cleveland Milling Co., Cleveland, Ohio.
 Special Fine Middlings with Ground Screenings not exceeding Mill Run,
 Standard Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Bran with Ground Screenings not exceeding Mill Run.
- Cleveland Provision Co., The, Cleveland, Ohio.
 Premium Digester Tankage.
- Clinton Sugar Refining Co., Clinton, Iowa.
 Clinton Corn Gluten Feed,
 Clinton Corn Oil Cake Meal.
- Clover Leaf Milling Co., Buffalo, N. Y.
 Advanced Registry Dairy Feed,
 Big Clover Mills Complete Ration,

Cloverdale Horse Feed,
 Clover Leaf Mills Calf Meal,
 Clover Leaf Mills Cattle Fattener,
 Clover Leaf Mills Dairy Ration,
 Clover Leaf Mills Egg Mash,
 Clover Leaf Mills Hog Meal,
 Clover Leaf Mills Horse Feed,
 Clover Leaf Mills Scratch Grains,
 Clover Leaf Mills Stock Feed.
 Cocot Meal,
 Cotton Seed Feed,
 Master Grain Ration,
 Oriental Dairy Feed,
 Peerless Horse Feed,
 Peerless Milk Ration,
 Sweet Clover Mills Ready Ration,
 White Mountain Stock Feed,

Coates Estate, Washington. Philadelphia, Pa.
 Soft Feed,

Cole Milling Co., H. C., Chester, Ill.
 Wheat Bran with Ground Screenings not exceeding Mill Run.
 Wheat Middlings with Ground Screenings not exceeding Mill Run,

Coleman & Co., C. S., Philadelphia, Pa.
 Corn Bran,
 Dried Brewers Grains,
 Gluten Feed,
 Hominy Feed,
 Rye Middlings,
 Wheat Bran,
 Wheat Middlings,
 Wheat Red Dog,

Collegeville Mills, Collegeville, Pa.
 Morex Chicken Mash,

Colonial Food Digester Co., Montrose, Pa.
 Colonial Food Digester,
 Colonial Poultry Regulator,

Colton Brothers Co., The, Bellefontaine, Ohio.
 Cracked Corn,
 Feed Meal,
 King Chop,
 Mixed Wheat Feed,
 Pure Flaked Corn and Oats,
 Pure Wheat Bran,
 Wheat Middlings.

Commander Mill Co., Minneapolis, Minn.
 Commander Wheat Bran with Ground Screenings not exceeding Mill Run.
 Commander Wheat Flour Midds. with Ground Screenings not exceeding Mill Run,
 Commander Wheat Standard Midds. with Ground Screenings not exceeding Mill Run,

Commercial Mill Co., The, Detroit, Mich.
 Henkel's Fine White Feed,
 Standard Wheat Middlings,

Conklin & Son, Inc., E. W., Binghampton, N. Y.
 Arrow Chick Food,
 Arrow Egg Food,
 Atlas Scratch Grains,

Consolidated Dressed Beef Co., Philadelphia, Pa.
 Consolidated Beef and Bone Scrap,
 Consolidated Digester Tankage,
 Stock Yard Hog Food.

Consolidated Flour Mills Co., Hutchinson, Kans.
 Corn Chop with Corn Bran,
 Wheat Bran with Screenings,
 Wheat Mixed Feed with Screenings,
 Wheat Shorts with Screenings,
 White Wheat Shorts.

- Coombs Milling Co., W. A. Coldwater, Mich.
 Rob Roy Rye Feed.
 Rob Roy Winter Wheat Bran with Ground Screenings not exceeding Mill Run.
 Rob Roy Winter Wheat Middlings with Ground Screenings not exceeding Mill Run.
- Coppes Bros. & Zook, Napanee, Ind.
 Wheat Bran.
 Wheat Middlings and Ground Wheat Screenings,
- Corby Company, The, Washington, D. C.
 Corby Dried Grains from the Manufacture of Yeast.
- Corn Products Refining Company, New York City, N. Y.
 Argo Corn Oil Cake Meal,
 Buffalo Corn Gluten Feed,
 Diamond Corn Gluten Meal,
 Diamond Hog Meal,
 Globe Corn Gluten Feed,
 Queen Corn Gluten Feed.
- Corno Mills Co., The, St. Louis, Mo.
 Nutro Hen Feed.
 Nutro Hen Feed with Grit.
- Crouch Brothers Co., Erie, Pa.
 Rye Mixed Feed with Ground Screenings not exceeding Mill Run,
 Wheat Bran with Ground Screenings not exceeding Mill Run.
 Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.
- Curtiss Grain Corporation, Buffalo, N. Y.
 Boggs Ceramel Horse Feed,
 Chanticleer Scratch Feed,
 Co-Boss Sugared Dairy Feed,
 Curtiss Chop,
 Curtiss Dairy Feed,
 Curtiss Daylay Feed,
 Curtiss Developing Feed,
 Curtiss Mixed Feed,
 Curtiss Perfect Ration,
 Curtiss Pigeon Feed,
 Curtiss Red Dog,
 Curtiss Stock Feed,
 Farmel Dairy Feed,
 Farmel Hog Meal,
 Farmel Horse Feed,
 Little Chick Feed,
 Rex Scratch Feed,
 Spur Scratch.
- Dannals Milling Co., Altoona, Pa.
 Chick Food,
 Corn Feed Meal,
 Corn and Oats Chop,
 Hen Food,
 Horse Chop,
- Darling & Company, Chicago, Ill.
 Darling's Blood Tankage,
 Darling's Digester Tankage,
 Darling's Feeding Tankage,
 Darling's Granulated Bone,
 Darling's Meat Crisps,
 Darling's Meat Scraps.
- Davis, S. P., Little Rock, Ark.
 Beauty Brand Cottonseed Feed,
 Davis Brand Cottonseed Feed,
 Good Luck Cottonseed Feed,
 Veribest Cottonseed Meal.
- Dayton Grain & Hay Co., Dayton, Ohio.
 "Mak-Em-Grow" Chick Feed,
 "Mak-Em-Grow" Scratch Feed.

Dayton Milling Co., Towanda, Pa.

Dayton's Dairy Ration A,
Dayton's Dairy Ration B,
Dayton's Laying Mash,
Dayton's Ideal Scratch Grain.
Mixed Chop.

Dean Brothers, New Milford, Pa.

Chop Feed,
Corn Feed Meal,
Corn and Oat Feed,
Liberty Laying Mash,
Liberty Scratch Feed.

Dean & Lee, Horseheads, N. Y.

Pioneer Dairy Ration.

Denver Alfalfa Milling & Products Co., The, Hartman, Colo.
Alfalfa Meal.

Deutsch & Sickert Co., Milwaukee, Wis.

Barley Feed,
Flour Middlings,
Hominy Feed,
Pure Wheat Bran,
Pure Wheat Middlings,
Red Dog Flour,
Rye Middlings,
Wheat Bran with Ground Screenings,
Wheat Middlings with Ground Screenings,

Dewey Brothers Co., The, Blanchester, Ohio.
Dewey's Ready Ration.

De Wine Milling Co., Yellow Springs, Ohio.

Gilt Edge Chick Feed,
Gilt Edge Scratch Feed,
Kream Dairy Feed,
O. K. Scratch Feed,
Pig & Hog Relish,
Sun-Ray Scratch Feed,

Dickinson Co., The Albert, Chicago, Ill.

Alfalfa Meal,
Colonial Chick Feed, No Grit,
Colonial Chick Feed, with Grit,
Colonial Developing Feed, no Grit,
Colonial Developing Feed, with Grit,
Colonial Scratch Feed, no Grit,
Colonial-Scratch Feed, with Grit,
Crescent Chick Feed, no Grit,
Crescent Chick Feed, with Grit,
Crescent Scratch Feed, no Grit,
Crescent Scratch Feed, with Grit,
Dickinson Dairy Feed,
Globe Chick Feed, no Grit,
Globe Chick Feed, with Grit,
Globe Chick Mash, with Dried Buttermilk,
Globe Developing Feed, no Grit,
Globe Developing Feed, with Grit,
Globe Egg Mash,
Globe Pigeon Feed, no Grit,
Globe Scratch Feed, with Grit,
Globe Scratch Feed, no Grit,
Hobby Horse Feed,
Honeysuckle Feed,
King Pigeon Feed, no Grit,
King Pigeon Feed, with Grit,
Oasis Horse Feed,
Pine Tree Chick Feed, no Grit,
Pine Tree Chick Feed, with Grit,
Pine Tree Scratch Feed, no Grit,
Pine Tree Scratch Feed, with Grit,
Queen Poultry Mash,
Rival Hog Feed,
Rival Horse Feed,
Rival Scratch Feed, no Grit,

Rival Scratch Feed, with Grit,
 Stag Stock Feed,
 White Cross Chick Feed, no Grit,
 White Cross Chick Feed, with Grit,
 White Cross Horse Feed,
 White Cross Scratch Feed, no Grit,
 White Cross Scratch Feed, with Grit,
 White Cross Stock Feed.

Diehl, Omwake & Diehl, Chambersburg, Pa.

D. O. D. Dairy Feed,
 D. O. D. 30% Dairy Feed,
 D. O. D. Make-Em-Lay Dry Mash Feed,
 D. O. D. Scratch Feed,
 D. O. D. Stock Feed.

Dixie Mills Co., East St. Louis, Ill.

Anchor Dairy Feed,
 Anchor Molasses Horse & Mule Feed,
 Diamond Horse & Mule Feed,
 Dixie Cow Feed,
 Dixie Dairy Feed,
 Dixie Hen Feed,
 Dixie Horse & Mule Feed,
 Dixie Poultry Mash,
 Holsum Horse Feed,
 Polo Chick Feed,
 Polo Dairy Feed,
 Polo Hen Feed,
 Polo Hen Feed, with Grit,
 Polo Horse Feed.

Dold Packing Co. Jacob, Buffalo, N. Y.

Dold Quality Digester Tankage,
 Dold Quality Meat and Bone Meal,
 Dold Quality Meat and Bone Scrap,
 Dold Quality No. 2 Meat and Bone Scrap,
 Dold Quality Poultry Bone,
 Dold Quality Soluble Blood.

Douglass Company, Cedar Rapids, Iowa.

Douglas Corn Gluten Feed,

Dousman Milling Co., The John P., DePere, Wis.

Dousman's Fine Wheat Middlings,
 Dousman's Low Grade Flour,
 Dousman's Wheat Bran.

DuBois Brewing Co., DuBois, Pa.

Dried Brewers' Grains.

DuBois Milling Co., DuBois, Pa.

DuBois Milling Co's Home Ground Chop.

Dull's Flour & Feed Store, Easton, Pa.

Extra Mash,
 Mixed Grain,
 Plain Mash.

Duluth Superior Milling Co., Duluth, Minn.

Boston Mixed Feed,
 Duluth Imperial Bran,
 Flour Middlings,
 Red Dog Flour,
 S. Middlings.

Duluth Universal Milling Co., Duluth Minn.

Duluth Universal Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run.

Dunlop Mills, The, Richmond, Va.

Dunlop Arrow Ship Stuff and Ground Recleaned Screenings not exceeding Mill Run,
 Dunlop Arrow Wheat Bran.

Dunwoody Co., Ezl., Philadelphia, Pa.

Alfalfa Meal,
 Brewer's Dried Grains,
 Buckwheat Feed,

Digester Tankage,
 Fish Scrap,
 Hominy Feed,
 Poultry Meat,
 Special Chick Feed,
 Special Developing Chick Feed,
 Special Pigeon Feed,
 Special Pigeon Feed with Corn,
 Special Poultry Mash Feed,
 Special Scratch Feed.

Eagle Roller Mill Co., New Ulm, Minn.
 Flour Middlings with Ground Screenings not exceeding Mill Run,
 Hominy Feed,
 No. 2 Feed (Corn and Oats),
 Red Dog Superb Flour,
 Rye Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Standard Middlings with Ground Screenings not exceeding Mill Run.

Early & Daniel Co., The, Cincinnati, Ohio.
 Ce-re-a-lia Egg Mash,
 Ce-re-a-lia Sweets for Dairy,
 Eaden Chick,
 Forage,
 Tuxedo Chick,
 Tuxedo Chop,
 Tuxedo Scratch,

Easton Flour & Feed Co., Easton, Pa.
 Easton's Best Mixed Grain,
 Easton's Best Poultry Mash.

Eby, Elmer, Lititz, Pa.
 10 Per Cent. Poultry Mash,

Eby & Son, Jonas F., Lancaster, Pa.
 Corby Dried Grains,
 Crystaloid Dairy Feed,
 Excelsior Pigeon Feed, no Grit,
 Laymor Scratch Feed, no Grit,
 Laymor Scratch Feed, 5 per cent. Grit,
 "Liberty" Cottonseed Feed,
 "Liberty" Cottonseed Meal,
 Perfection Pullet Feed, no Grit,
 Superior Chick Feed, no Grit,
 Superior Chick Feed, 5 per cent. Grit,
 Triumph Mash.

Economic Feed Co., Inc., New York City, N. Y.
 Economic Creme de la Creme Dairy Feed with Molasses,
 Economic Dairy Feed,
 Economic Special Dairy Feed,
 Fleischmann's XX Dried Grains.

Edgar Morgan Co., Memphis, Tenn.
 Happy Cow Feed (Dry),
 Happy Cow Feed (Sweet),
 Happy Hen Feed,
 Happy Hen Mash,
 Happy Hog Feed,
 Happy Horse and Mule Feed,
 Happy Stock Feed,
 Little New Sweet Feed,
 Old Beck Sweet Feed.

Elkenberry-Fitzgerald Co., The, Cincinnati, Ohio.
 Nutritia Cotton Seed Feed,

Empire Cotton Oil Co., Atlanta, Ga.
 Gilt Edge Brand Cottonseed Feed,
 Gilt Edge Brand Cottonseed Meal.

Empire Grain & Elevator Co., Binghamton, N. Y.
 Egee Chick Feed,
 Egee Mash,
 Egee Scratch Feed,
 Egee Stock Feed.

Empire Milling Co., Minneapolis, Minn.

Empire Wheat Bran with Ground Screenings not exceeding Mill Run,
 Empire Wheat Midds. with Ground Screenings not exceeding Mill Run,
 Empire Wheat Flour Standard Middlings with Ground Screenings not exceeding Mill Run.

Emporium Milling Co., Emporium, Pa.

Emporium Feed,
 Emporium Scratch Grains,
 Liberty Standard Laying Mash,
 No. 1 Provender Pure Corn and Oats Chop.

Enterprise Tallow & Grease Company, Philadelphia, Pa.

Digester Tankage for Hog Feeding,
 Beef Scrap.

Eshelman, John W., Lancaster, Pa.

Imperial Scratch Feed, no Grit,
 Imperial Scratch Feed, 5 per cent. Grit,
 J. W. E.'s Calf Meal,
 J. W. E.'s Chick Feed, no Grit,
 J. W. E.'s Chick Feed, 5 per cent. Grit,
 J. W. E.'s Corn Bran,
 J. W. E.'s Corn and Oats Chop,
 J. W. E.'s Developing Feed, no Grit,
 J. W. E.'s Digester Tankage,
 J. W. E.'s Fish Scrap,
 J. W. E.'s Growing Mash,
 J. W. E.'s Hog Meal,
 J. W. E.'s Home-Made Dairy Feed,
 J. W. E.'s Horse Feed,
 J. W. E.'s Laying Mash,
 J. W. E.'s Meat and Bone Scrap,
 J. W. E.'s Pigeon Feed, no Grit,
 J. W. E.'s Poultry Bone,
 J. W. E.'s Scratch Feed, no Grit,
 J. W. E.'s Scratch Feed, with 5 per cent. Grit,
 J. W. E.'s Special Pigeon Feed, no Grit,
 J. W. E.'s Stock Feed,

Etters, Clayton, Oak Hall Station, Pa.

Choice Chop,
 Wheat Bran,
 Wheat Middlings,

Evans Milling Co., Indianapolis, Ind.

Evans' Hominy Feed.

Everett, Aughenbaugh & Co., Waseca, Minn.

E-A Co. Mixed Feed,
 E-A Co. Wheat Bran,
 E-A Co. Wheat Middlings.

Ewart & Lake, Groveland, N. Y.

Barley Mixed Feed,
 Wheat Bran,
 Wheat Middlings.

Excello Feed Milling Co., St. Joseph, Mo.

Alfalfa Meal,
 Excello Chick Feed,
 Excello Dairy Feed,
 Excello Hen Feed,
 Excello Hog Feed,
 Excello Horse Feed,
 Excello Molasses Feed,
 Excello Poultry Mash,
 Ideal Horse Feed,
 Reliable Dairy Feed,
 Reliable Hen Feed,
 Reliable Horse Feed,
 Reliable Molasses Feed,
 Sho-Me Horse Feed.

Farabaugh, F. E., Patton, Pa.

Mixed Hen Feed.

Farm Equipment Co., Baltimore, Md.

"Securo Brand" Digester Tankage.

Farmers' Co-Operative Union, Wellsboro, Pa.
Co-Operative Mixture.

Farmers' Feed Co., New York City, N. Y.
Bull Brand Dried Brewers' Grains.

Farmers' Fertilizer, Seed & Hide Co., Womelsdorf, Pa.
May's Hog Tankage.

Fetzer, Geo. H., Philadelphia, Pa.
Empire Horse Feed,
Fetzer's Special,
Sweet Meal,
Victory Horse Feed.

Finn, George M., Syracuse, N. Y.
Chicken Feed prepared from Ground Meat and Bone Scrap.

Flicksville Milling Co., Flickville, Pa.
Horse Feed,
Mixed Feed,
Scratch Feed.

Flory Milling Co. The, Bangor, Pa.
Buckwheat Feed,
Extra Rye, Corn and Oats Feed,
Globe Cow Feed,
Golden Egg Chick Feed,
Golden Egg Dry Mash,
Golden Egg Scratch Feed,
Liberty Standard Chick Feed,
Liberty Standard Growing Mash,
Liberty Standard Laying Mash,
Liberty Standard Mixed Grains,
Mixed Wheat and Rye Middlings,
Pure Rye Middlings,
Pure Wheat Bran,
Pure Wheat Middlings,
Special Mixed Horse Feed.

Franke Grain Co. The, Milwaukee, Wis.
Barley Feed,
Choice Cottonseed Meal,
Dried Grains,
Gluten Feed,
Good Cottonseed Meal,
Hominy Feed,
Malt Sprouts,
Oil Process Oil Meal,
Pure Wheat Bran,
Reground Oat Feed,
Rye Middlings,
Wheat Bran with Screenings not exceeding Mill Run,
Wheat Flour Middlings,
Wheat Middlings,
Wheat Red Dog Flour.

Franklin Milling Co., Swineford, Pa.
Franklin Stock Food.

Fredman Milling and Manufacturing Co., The, Minneapolis, Minn.
Ground Barley.

Fritch, D. D. & M. D., Macungie, Pa.
Corn Chop,
Corn and Cob Chop,
Mixed Chop,
Rye Middlings,
Wheat Bran,
Wheat Germ,
Wheat and Rye Middlings,
Yellow Corn Bran.

Fuhrer-Ford Milling Co., Mt. Vernon, Ind.
Wheat Shorts,

Furst Brothers, Cedar Springs, Pa.
Mixed Chop.

Gamble, G. M., Bellefonte, Pa.
Excelsior Chick Feed,
Excelsior Hen Feed,
Mixed Chop,
Pure Corn Chop,
• Pure Wheat Bran,
Pure Wheat Middlings.

Gambrill Manufacturing Co., C. A., Baltimore, Md.
Bran with Ground Screenings not exceeding Mill Run,
Brown Middlings with Ground Screenings not exceeding Mill R ,
Hog Feed,
Horse Feed,
Premier Middlings,
White Middlings,

Gandy & Co., O., South Whitley, Ind.
Chop Feed,
Standard A Chick Feed,
Standard A Poultry Feed,
Standard Hog Feed,

Garland Milling Co., Greensburg, Ind.
Garland Mixed Feed.

General Flour & Feed Co., Buffalo, N. Y.
Honest Cow Feed.

Globe Elevator Co., Buffalo, N. Y.
Anchor Dairy Feed,
Anchor Horse Feed,
Anchor Scratch Feed,
Blue Ribbon Developing Feed,
Blue Ribbon Growing Mash,
Blue Ribbon Horse Feed,
Blue Ribbon Laying Mash,
Blue Ribbon Little Chick Feed,
Blue Ribbon Pigeon Feed,
Blue Ribbon Scratch Feed,
Buffalo Stock Feed,
C. O. & B. Chop.
Globe Creamery Feed,
No. 1 Chop Feed,
Star Scratching Grains.

Globe Grain & Milling Company, Los Angeles, Cal.
Globe A 1 Alfalfa Meal,
Globe A 1 Alfalfa Molasses,

Globe Milling Co., Watertown, Wis.
Globe Rye Middlings,
Rye Red Dog Flour.

Godshall & Co. A. C., Lansdale, Pa.
Chick Feed,
Corn Meal,
Dry Mash,
Ground Ear Corn,
Mixed Chop,
Rye Middlings,
• Scratch Feed,
Wheat Bran,
Wheat Middlings.

Golden Grain Milling Co., East St. Louis, Ill.
Ben Hur Horse and Mule Feed,
Big Ben Horse and Mule Feed,
Butter Fat Dairy Feed,
Century Horse and Mule Feed,
Cornette Horse and Mule Feed,
Golden Grain Alfalfa Meal,
Golden Grain Alfalfa Molasses Meal,
Golden Grain Horse & Mule Feed,

- Golden Grain Mills Dairy Feed,
 - Ideal Horse and Mule Feed,
 - Keystone Horse and Mule Feed,
 - Liberty Bond Horse and Mule Feed,
 - Mascot Horse and Mule Feed,
 - Percheron Horse and Mule Feed,
 - Protection Horse and Mule Feed,
 - Puritan Horse and Mule Feed,
 - Val-U Horse and Mule Feed.
- Goldsboro Pure Feed Co., Goldsboro, Pa.
- Gold-O Cane Molasses Dairy Feed,
 - Gold-O Pure Cane Molasses Swine Feed,
 - June Bug Cane Molasses Dairy Feed.
- Goodhue Mill Company, Minneapolis, Minn.
- Pure Wheat Middlings,
 - Winsome Bran with Ground Screenings not exceeding Mill Run,
 - Winsome Standard Middlings.
- Goodling, D. W., Richfield, Pa.
- Keystone Chick Starter.
- Goshen Milling Co., The, Goshen, Ind.
- Wheat Bran,
 - Wheat Middlings.
- Gopher State Milling Co., Little Falls, Minn.
- Bran,
 - Fancy Midds,
 - Low Grade,
 - Royal Mixed Feed.
- Grafton Roller Mill Co. The, Grafton, N. Dak.
- Grafton Bran,
 - Grafton Middlings,
 - Improved Grafton Wheat Feed.
- Grain Belt Mills Co., South St. Joseph, Mo.
- Bonanza Horse & Mule Feed,
 - Bronco Horse & Mule Feed,
 - Competition Horse & Mule Feed,
 - Economy Molasses Feed,
 - Extra Horse & Mule Feed,
 - Gee Bee Chick Feed,
 - Gee Bee Dairy Feed,
 - Gee Bee Hen Feed,
 - Gee Bee Hog Feed,
 - Gee Bee Poultry Mash,
 - Hunter Horse & Mule Feed,
 - Liberty Scratch Feed,
 - Oatfalfa Horse & Mule Feed,
 - Pennant Horse & Mule Feed,
 - Red D Dairy Feed,
 - Tiger Alfalfa Molasses Feed,
 - Topper Hog Feed.
- Grain Products Co., The, Wichita, Kans.
- Wheat Bran,
 - Wheat Mixed Feed,
 - Wheat Shorts.
- Grandin Milling Co., D. H., Jamestown, N. Y.
- Grandin's Milk Maker,
 - Grandin's Scratch Feed,
 - Grandin's Stock Feed,
 - Grandin's Twin Six Dairy Feed.
- Great Northern Flour Mills Co., Minneapolis, Minn.
- Wheat Bran,
 - Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 - Wheat Red Dog Flour,
 - Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.
- Greencastle Elevator Co., Greencastle, Pa.
- C. V. All Grain Hen Feed,
 - L. R. Walch's Dry Mash for Laying Hens.
- Grelch-Hovey Co., St. Paul, Minn.
- Condensed (Semi-Solid) Buttermilk.

Guarantee Food Co. of Penna., Lewisburg, Pa.
 Keystone Poultry Conditioner,
 Keystone Stock Conditioner.

Hafleigh Rendering Co., Philadelphia, Pa.
 "Harco" Meat and Bone Scraps.
 Quaker City Brand Digester Meat and Bone Tankage,
 Quaker City Quality Brand Meat and Bone Scraps,
 Quaker City Special Brand Meat and Bone Scraps.

Hales & Edwards Co., Chicago, Ill.
 Cackle Fine Chick Feed, no Grit,
 Cackle Fine Chick Feed, with Grit,
 Cackle Poultry Feed, no Grit,
 Cackle Poultry Feed, with Grit and Shell,
 College Crate Fattener,
 College Dairy Feed,
 College Hog Feed,
 College Horse Feed,
 College Laying Mash,
 College Scratch Feed, no Grit,
 College Scratch Feed, with Grit,
 College Stock Feed,
 Eatall Dried Buttermilk,
 Exeelsior Horse Feed,
 Gold Flake Dairy Feed,
 Greeno Feed,
 Harvest Horse Feed,
 Kingfalfa Horse Feed,
 Pioneer Horse Feed, with Dried Buttermilk,
 Pioneer Stock Feed,
 Pound Squab Pigeon Feed, no Corn; no Grit,
 Pound Squab Pigeon Feed, no Grit,
 Pound Squab Pigeon Feed, with Grit,
 Red Comb Chick Mash, with Dried Buttermilk,
 Red Comb Coarse Chick Feed, no Grit,
 Red Comb Coarse Chick Feed, with Grit,
 Red Comb Crate Fattener, with Dried Buttermilk,
 Red Comb Fine Chick Feed, no Grit,
 Red Comb Fine Chick Feed, with Grit,
 Red Comb Mash Feed, (With Dried Buttermilk & Shell),
 Red Comb Poultry Feed, no Grit,
 Red Comb Poultry Feed, with Grit & Shell,
 Red Horn Calf Meal,
 Red Horn Dairy Feed.

Hall Co., W. D. Atlanta, Ga.
 Choice Cotton Seed Meal,
 Hall Brand Cotton Seed Feed,
 Prime Cotton Seed Meal.

Halliday Milling Co., H. L. Cairo, Ill.
 Halliday's Autoerat Mixed Feed,
 Halliday's Conservation Mixed Feed,
 Halliday's Extra Choice Mixed Feed,
 Halliday's H. Mixed Feed,
 Halliday's Perfect Mixed Feed,
 Halliday's Popular Mixed Feed,
 Halliday's Special Mixed Feed,
 Halliday's Standard Dairy Feed.

Hamlin, Dwight E., Pittsburgh, Pa.
 Ben R Horse Feed,
 Brewers Grain and Molasses,
 Hamlin's Quality Feed,
 Hamlin's Quality Poultry Dry Mash,
 H. & S. Alfalfa Feed (for Milk Cows),
 H. & S. Dairy Feed,
 H. & S. Horse, Mule & Dairy Feed,
 H. & S. Ohio Valley Dairy Feed,
 James L. King Dairy Feed,
 James L. King Horse Feed.

Hardesty Milling Co., The, Dover, Ohio.
 Softer Winter Wheat Bran,
 Softer Winter Wheat Middlings,
 Softer Winter Wheat Mixed Feed.

Harding, George L., Binghamton, N. Y.
Harding's Milk Albumen.

Hawk, J. H., Allentown, Pa.
Corn Chop,
Mixed Chop,
Wheat Bran,
Wheat Middlings.

Hayden, A., Elizabeth, Pa.
Chop Feed,
Winter Wheat Bran,
Winter Wheat Middlings.

Hayes Grain & Commission Co., Little Rock, Ark.
Arkansaw Brand Cotton Seed Feed,
Nitrine Brand Cotton Seed Meal,
Supreme Brand Cottonseed Meal.

Hazleton Mercantile Co., Hazleton, Pa.
Mixed Chop.

Heacock, Harry G., Oranegville, Pa.
Mix Chop,
Pure wheat Bran,
Pure Wheat Middlings.

Head & Co., Atlanta, Ga.
Independent Dried Beet Pulp.

Hecker-Jones-Jewell Milling Co., Buffalo, N. Y.
Choice Wheat Bran with Trace of Screenings,
Fancy White Middlings,
Mixed Feed with Mill Run Screenings,
Red Dog Flour,
Standard Middlings with Mill Run Screenings.

Heinz Co., H. J., Pittsburgh, Pa.
Dried Brewers' Grains & Distillery Waste.

Hershey, J. B., Manheim, Pa.
Hershey's Grow or Bust Tankage.

Hex Milling Co., Shamokin, Pa.
Hen Food,
Poultry Mash.

Hirst & Begley Linseed Co., Chicago, Ill.
Hirst & Begley's Brand Linseed Meal.

H-O Company, The, Buffalo, N. Y.
The H-O Company's Algrane Horse Feed,
The H-O Company's Algrane Milk Feed,
The H-O Company's Algrane Scratching Feed,
The H-O Company's Chick Feed,
The H-O Company's Horse Feed with Alfalfa,
The H-O Company's Horse Feed with Molasses,
The H-O Company's Laying Mash,
The H-O Company's Laying Mash with Alfalfa,
The H-O Company's Liberty Standard Chick Feed,
The H-O Company's Liberty Standard Growing Mash,
The H-O Company's Liberty Standard Laying Mash,
The H-O Company's Liberty Standard Medium Cracked Grains,
The H-O Company's Liberty Standard Mixed Grains,
The H-O Company's Milk Feed with Molasses,
The H-O Company's New England Stock Feed,
The H-O Company's Steam Cooked Chick Feed,
The H-O Company's Read the Tag Dairy Feed.

Hoge & Bro., W. S., Washington, D. C.
Hoges Best Dairy Ration,
Hoges Columbia Dairy Ration,
Hoges Dairy Ration.

Hogsett & Son, J. F., Uniontown, Pa.
Keystone Scratch Feed, no Grit.

Hollands & Sons, Stephen, Hornell, N. Y.
Hollands' Dairy Feed,
Hollands' Dry Mash.

Hottel Co., The, Milwaukee, Wis.
Dried Beet Pulp.

Hubbard Milling Co., Mankato, Minn.
Pure Flaky Bran,
Standard Fine Middlings with Ground Screenings not exceeding Mill Run,
Sterling Red Dog Flour,
White Flour Middlings.

Huhsinger Brothers Co., J. C., Keokuk, Iowa.
KKK Corn Gluten Feed.

Hummer, W. F., Milford, N. J.
Corn Ear Cob Meal,
Hustlers' Scratch Feed,
Mix Feed,
Our Special Corn & Oats Feed,
Record Breaker Pure Dry Mash Feed,
Rye Bran & Middlings.

Humphreys-Godwin Co., Memphis, Tenn.
Bull Brand Cottonseed Meal,
Danish Brand Cottonseed Feed,
Dixie Brand Cottonseed Meal,
Forfat Brand Cottonseed Meal,
77 Cottonseed Feed.

Hunter, H., Ashland, Pa.
O. K. Chick Food,
O. K. Hen Food.

Huron Milling Co., The, Harbor Beach, Mich.
Jenk's Corn Gluten Feed,

Igleheart Brothers, Evansville, Ind.
Wheat Bran,
Wheat Middlings.

Illinois Vinegar Manufacturing Co., Chicago, Ill.
Fleischman's Dried Grains.

Imperial Grain & Milling Co., The, Toledo, Ohio.
C. O. & B. Feed,
Imperial Feed Meal,
Imperial Steam-Cooked Feed,
Premium Chop.

Independent Brewing Co., Pittsburgh, Pa.
Dried Brewers' Grains Chartiers Valley Brewery Branch,
Dried Brewers' Grains Duquesne Brewery Branch,
Dried Brewers' Grains First National Brewery Branch,
Dried Brewers' Grains Homestead Brewery Branch,
Dried Brewers' Grains Loyalhanna Brewery Branch,
Dried Brewers' Grains New Kensington Brewery Branch.

Industrial Distilling Company, Waterloo, N. Y.
Columbia Corn Distillers Grains.

International Glue Co., Boston, Mass.
Red Star Brand Fish Scrap,

International Milling Co., New Prague, Minn.
De-pend-on Barley Feed.

International Stock Food Co., Minneapolis, Minn.
International Medicinal Poultry Food Tonic,
International Medicinal Stock Food Tonic.

International Sngar Feed Co., Minneapolis, Minn.
International Chick Feed,
International Climax Dairy Feed,
International Climax Hog Feed,
International Dan Patch Special Horse Feed,
International Diamond Dairy Feed,
International Grofast Meal,
International Hog Feed,
International Hog Meal,

International Pig Meal,
 International Poultry Feed,
 International Ready Ration Dairy Feed,
 International Special Dairy Feed.

Iron City Brewery, Pittsburgh, Pa.
 Dried Brewers' Grains.

Jamestown Electric Mills, Jamestown, N. Y.
 Jem Chick Feed,
 Jem Cream Dairy Ration,
 Jem Milk Maker,
 Jem Poultry Mash,
 Jem Rob Roy Dairy Feed,
 Jem Scratch Feed,
 Jem Stock Feed.

Jennison Co., W. J., Minneapolis, Minn.
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Johnson & Co., Franklin, Pa.
 Venango Molasses Horse Feed,
 Wheat Mix Feed.

Johnson & Co., W. B. Memphis, Tenn.
 Imperial Brand Cottonseed Meal,
 Perfection Brand Cottonseed Feed,
 Supreme Brand Cottonseed Meal,
 Winner Brand Cottonseed Feed.

Johnstown Dry Grains Co., Johnstown, Pa.
 Dried Brewers' Grains.

Kalispell Flour Mill Co., Great Falls, Mont.
 Kalispell Bran,
 Kalispell Mixed Feed,
 Kalispell Standard Middlings.

Kansas Flour Mills Co., The, Kansas City, Mo.
 Gray Middlings & Screenings,
 Standard Shorts and Wheat Screenings,
 Wheat Bran and Screenings,
 Wheat Mixed Feed and Screenings,
 White Middlings and Wheat Screenings,
 White Shorts and Wheat Screenings.

Kansas Milling Co., The, Wichita, Kans.
 Wheat Bran with Mill Run Screenings.

Kasco Mills, Waverly, N. Y.
 Chick-Chick Scratch Grain,
 Kasco Full Nest Mash,
 Kasco Corn Feed Meal,
 Kasco Scratch Grain,
 Kasco Stock Feed,
 L. I. Scratch Grain.

Kaw Milling Co., The, Topeka, Kans.
 Kaw Kaw Middlings and Screenings,
 Kaw Kaw Shorts and Screenings,
 Kaw Kaw Wheat Bran and Screenings.

Kehlor Flour Mills Co., St. Louis, Mo.
 Kehlor's Mill Feed,
 Neptune Middlings,
 Palace Bran,
 Rex Middlings.

Kelley Mill Company, Kansas City, Mo.
 Bran and Screenings,
 Kelley's Korker Feed,
 Mixed Feed,
 Red Dog,
 Wheat Shorts.

Kelloggs & Miller, Amsterdam, N. Y.
Pure Old Process Oil Meal.

Kellogg & Sons, Inc., Spencer, Buffalo, N. Y.
Kellogg's Pure Old Process Cocoanut Meal,
Kellogg's Pure Old Process Linseed Oil Meal.

Kelly Milling Co., The William, Hutchison, Kans.
Standard Wheat Shorts,
Wheat Bran & Screenings,
Wheat Mixed Feed & Screenings.

Kemper Grain Co., Kansas City, Mo.
Wheat Bran & Screenings,
Wheat Middlings & Screenings,
Wheat Mixed Feed & Screenings.

Kern, John B. A., Sons, Inc., Milwaukee, Wis.
Kern's Rye Middlings with Ground Screenings not exceeding Mill Run,
Kern's Wheat Bran with Ground Screenings not exceeding Mill Run,
Kern's Wheat Middlings with Ground Screenings not exceeding Mill Run.

Keystone Commercial Co., McKeesport, Pa.
John-Hen Poultry Feed.

Keystone Food Digester Co., Montrose, Pa.
The Keystone Food Digester.

Keystone Hide Company, Lancaster Pa.
Keystone Feeding Tankage.

Kidder & Co., F. L., Paris, Ill.
Peerless Hominy Feed.

Kimball Milling Co., Kansas City, Mo.
Corn Bran,
Feed Meal,
Wheat Bran and Screenings,
Wheat Mixed Feed and Screenings,
Wheat Brown Shorts and Screenings.

Kist, W. J., Northampton, Pa.
Corn Chop,
Mixed Feed,
Rye Middlings,

Klander Est. J. C., Philadelphia, Pa.
Dried Brewers' Grains.

Klepser Brothers, Altoona, Pa.
Corn Chop,
Cow Chop,
Horse Chop,

Klepser Brothers, Martinsburg, Pa.
Corn Chop,
Cow Chop,
Horse Chop.

Koch & Company, H. W., Philadelphia, Pa.
Cotton Seed Feed.

Kolb, Wm., Philadelphia, Pa.
Kolb's Horse Feed.

Kornfalfa Feed Milling Co., Kansas City, Mo.
Kay Horse and Mule Feed,
Kluck Chick Feed,
Kluck Scratch Feed,
Kluck Sweetened Poultry Mash,
Kontract Horse & Mule Feed,
Kornfalfa Heavy Grain Feed,
Kornfalfa Hog Feed,
Kornfalfa Kandy Feed,
Kow Kow Dairy Feed,
Kutter Horse and Mule Feed.

Kratz, H. B., Schwenksville, Pa.
Ideal Chick Feed,
Ideal Hen Feed.

Krause Milling Co., Charles A., Milwaukee, Wis.

Badger Alfalfa Meal,
 Badger Dairy Feed,
 Badger Evergreen Feed,
 Badger Hog Feed,
 Badger Hominy Feed,
 Badger Horse Feed,
 Badger Laying Mash,
 Badger Maize Red Dog Flour,
 Badger Monoply Feed,
 Badger Stock Feed,
 Blue Top Dairy Feed,
 Blue Top Horse Feed,
 Blue Top Scratch Feed, no Grit,
 Blue Top Scratch Feed, with Grit,
 Conservation Scratch Feed, no Grit,
 Conservation Scratch Feed, with Grit,
 C. O. B. Feed,
 Cream City Dairy Feed,
 Cream City Horse Feed,
 Cream City Scratch Feed, no Grit,
 Crescent Horse Feed,
 Filly Horse Feed,
 Kramco Feed,
 Kramco Hog Feed,
 Krause Alfalfa Horse Feed,
 Krause Chick Feed, no Grit,
 Krause Chick Feed, with Grit,
 Krause Calf Meal,
 Krause Dairy Feed,
 Krause Developer Feed, no Grit,
 Krause Developer Feed, with Grit,
 Krause Horse Feed,
 Krause Scratch Feed, no Grit,
 Krause Scratch Feed, with Grit,
 Mor-Pul Horse Feed,
 Pul-Mor Horse Feed,
 Sweet Cud Dairy Feed.

LaFayette Corn Flour Mills, LaFayette, Ind.
 LaFayette Hominy Feed.

LeGrange Mills, The, Red Wing, Minn.
 Fine Wheat Middlings M with Ground Screenings,
 Pure Wheat Bran,
 Pure Wheat Red Dog Extra Flour.

Lake Erie Milling Co., The, Toledo, Ohio.
 Mollett's Economy Stock Feed,
 Mollett's Flaked Oats & Corn Chop,
 Mollett's K. C. Chop,
 Mollett's Park City Stock Feed,
 Mollett's Pure Corn and Oats Chop
 Mollett's Scratch Feed,
 Mollett's Yellow C. O. and B. Chop.

Lake Shore Elevator Co., The, Cleveland, Ohio.
 Cotton Seed Feed,
 Equality Scratch Food,
 Golden Calf Meal,
 Golden Hog Meal,
 Gro-Chick Developing Food,
 Harteno Horse Food,
 Hart's Competition Horse Food,
 Hart's Special Dairy Feed,
 Lake Shore Dairy Food,
 Puritan No. 2. Chop,
 Quality Dry Laying Mash,
 Special Scratch Food,
 Start-Rite Chick Food,
 Unus Horse and Mule Food.

Lancaster Food Digester Co., Lancaster, Pa.
 Pemberton's Stock Food Digester.

Lancaster Mill & Elevator Co., Lancaster, Pa.
 Conestoga Horse Feed,
 Lancaster Chick Feed, no Grit,
 Lancaster Chick Feed, with Grit,

- Lancaster Dairy Feed,
 Lancaster Horse Feed,
 Lancaster Laying Mash,
 Lancaster Scratch Feed, no Grit,
 Lancaster Scratch Feed, with Grit,
 Liberty Horse Feed,
 Red Rose Horse Feed,
 Tally-Ho Horse Feed.
- Landes, J. C., Collegeville, Pa.
 Corn Bran,
 Corn Gluten Feed,
 Hominy Feed,
 Wheat Bran,
 Wheat Middlings.
- Langdon, H. H., Altoona, Pa.
 Langdon's Poultry Mash,
 Langdon's Scratch Grains.
- Lanier Brothers, Nashville, Tenn.
 Canary Brand High Grade Cottonseed Meal,
 Cottonseed Hulls (Prime),
 Cottonseed Meal and Ground Cottonseed Hulls Mixed,
 Durham Brand Cottonseed Feed,
 Jersey Brand Prime Cottonseed Meal.
- Larabee Flour Mills Corp., The, Hutchison, Kan.
 Standard Wheat Shorts,
 Wheat Bran,
 Wheat Mixed Feed.
- Larowe Milling Co., The, Detroit, Mich.
 Dried Beet Pulp,
 Dried Beet Pulp & Molasses,
 Larro-Feed,
 Larro-Mash,
 Larowe's Big Six Complete Dairy Feed,
 Larowe Hog Feed,
 Log Cabin Scratch Feed.
- Laudenslager, M. M., Macungie, Pa.
 Corn Chop,
 Mix Chop,
 Hominy Feed,
 Pure Wheat Bran.
- Leary's Sons, J. H., Franklin, Pa.
 Franklin Horse Feed,
 L. M. Scratch Feed.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind.
 Golden Bran,
 Golden Middlings,
 Golden Mixed Feed,
 Snowflake Bran,
 Snowflake Hominy Feed,
 Snowflake Middlings,
 Snowflake Mixed Feed,
 Snowflake Rye Middlings.
- Lea Milling Co., The, Wilmington, Del.
 Hominy Meal.
- Lebanon Milling Co., Lebanon, Pa.
 Blue Ribbon Quality Mash Feed.
- Lee Co., George H., Omaha, Neb.
 Lee's Best Conditioner,
 Lee's Egg Maker.
- Lewis & Bros. Co., John T., Philadelphia, Pa.
 Linseed Oil Cake.
- Lidgerwood Co-Operative Milling Co., Lidgerwood, N. D.
 Pure Spring Wheat Bran,
 Pure Spring Wheat Middlings.

- Listman Mill Co., The H. D., Salina, Kans.
 Elmco Bran,
 Elmco Mixed Feed,
 Elmco Std. Midds.
- Lloyd, C. E., Washington Court House, Ohio.
 Elko Chick Feed,
 Elko Scratch Feed.
- London Mill Co., London, Ohio.
 Long's Wheat Bran-Corn Bran,
 Long's Pure Wheat Middlings,
 Pure Bran,
 Wheat Screenings.
- Longcope, Charles H., Philadelphia, Pa.
 Longcope's Special Horse Feed,
 Special Mixed Feed.
- Loudonville Mill & Grain Co., The, Loudonville, Ohio.
 Barley Feed,
 LeGrande Middlings,
 Loudonville Bran,
 Rye Feed,
 Wheat and Barley Middlings.
- Loughrey Brothers Milling & Grain Co., Monticello, Ind.
 Loughrey's Feed,
 Loughrey's Mixed Feed with Screenings not exceeding Mill Run.
 Loughrey's Wheat Middlings and Screenings.
- Louisiana State Rice Milling Co., Inc., New Orleans, La.
 Lastarmco Pearling Cone,
 Rice Polish.
- Lovitt & Co., L. B., Memphis, Tenn.
 Lovitt Brand Cottonseed Meal,
 Memphis Brand Cottonseed Meal,
 Thirty-Six Brand Cottonseed Feed.
- Luekenbach, D. & A. Bethlehem, Pa.
 Laying Hen Scratch Feed,
 Mixed Horse Chop.
- Luverne Oil Mill, Luverne, Ala.
 Velvet Bean Feed,
- Luxemburg Milling Co., Luxemburg, Wis.
 Rye Shorts,
 Wheat Bran,
 Wheat Midds.
- Lyle & Lyle, Huntsville, Ala.
 Economy Cottonseed Feed.
- McCall's Sons, T. Frank, Chester, Pa.
 McCall's Special Horse Feed.
- McKeesport Tin Plate Co., McKeesport, Pa.
 Banner Refuse.
- McKenzie, Lewis & Co., Macon, Ga.
 Atlas Brand Cottonseed Feed,
 Universal Brand Cottonseed Feed.
- McMahan, C. H., Milton, Pa.
 McMahan's Milk & Muscle Producer,
 McMahan's Ready Egg Ration and Chicken Grower.
- McMurtrie Milling Co., Belvidere, N. J.
 Cob Meal,
 Horse Feed,
 Wheat Middlings.
- Macneal Co., Walter F., Baltimore, Md.
 Alfalfa Meal,
 Choice Cottonseed Meal,
 Dried Brewers' Grains,

Dried Distillers' Grains,
Dried Malt Sprouts,
Gluten Feed,
Hominy Feed,
Old Process Linseed Meal,
Prime Cottonseed Meal.

Mandeville Co., The, Wilkes-Barre Pa.
B. Chop,
Mandeville's Egg Producer.

Maney Milling Co., Omaha, Nebr.
Pure Wheat Shorts,
Mixed Feed and Ground Screenings not exceeding Mill Run.
Wheat Bran with Ground Screenings not exceeding Mill Run.

Mann & Allshouse, Easton, Pa.
Chick Food,
Ground Mixed Feed,
Mixed Grains: Poultry Feed,
Poultry Mash,
Rye Bran,
Rye Middlings,
Wheat Bran,
Wheat Middlings.

Mann Brothers Co., Inc., The, Buffalo, N. Y.
Pure Old Process Linseed Oil Meal.
Mansfield Milling Co., Mansfield, Ohio.
Money Maker Wheat Middlings with Ground Screenings.
Overcoat Pure Wheat Bran with Ground Screenings not exceeding Mill Run,
Producers Wheat Mixed Feed with Ground Screenings,
Triangle Flour Middlings,
Triangle Wheat Bran,
Triangle Wheat Middlings with Ground Screenings not exceeding Mill Run,
Triangle Wheat Mixed Feeds with Ground Screenings not exceeding Mill Run.

Maple Leaf Milling Company, Ltd., Toronto, Ont.
Bran,
Rex Middlings.

Marco Milling Co., Pine Bluff, Ark.
Corn Bran,
Diamond M,
Hominy Feed,
Marco,
Sawson.

Marion National Mill Co., The, Marion, Ohio.
Middlings,
Wheat Bran and Screenings not exceeding Mill Run.

Maritime Trading Corporation, New York City, N. Y.
Bull Brand Dairy Ration,,
Bull Brand Stock Feed,
Hi-Test Dairy Feed,
Red-E-Lay Laying Mash.

Marshall Milling Co., Marshall, Minn.
Wheat Bran with Mill Run of Screenings,
White Shorts with Mill Run of Screenings.

Martin & Co., Altoona, Pa.
Corn Chop,
Corn and Oats Chop,
Standard Liberty Chick Feed,
Standard Liberty Laying Mash,
Standard Liberty Medium Cracked Corn,
Standard Liberty Scratch Feed,
Standard Liberty Wheat Bran,
Standard Liberty Wheat Middlings.

Martin Company, D. B., Philadelphia, Pa.
Martin's Chicken Feed,
Martin's Digester Tankage.

Masontown Brewing Co., Masontown, Pa.
Brewers' Dried Grains.

Mather Brothers, Greenville, Pa.

Bran,
Buckwheat Middlings,
Corn Meal,
Cracked Corn,
Middlings.

Matthews & Sons, Inc., C. P. Seranton, Pa.

Best Mixed Feed for Cows,
Best Mixed Feed for Horses,
Best Mixed Grain for Chickens,
Chicken Feed,
Dairy Ration,
Mixed Feed,
Poultry Mash.

Maurer Manufacturing Company, Newark, N. J.

Maurer's Kwality Digester Tankage,
Maurer's Kwality Meat & Bone Scrap.
Maurer's Standard Meat & Bone Scrap.

Mauser & Cressman, Catasauqua, Pa.

Chick Feed,
Dry Mash,
Mixed Chop,
Rye Bran and Middlings,
Scratch Feed,
Wheat Bran,
Wheat Middlings.

Mauser Mill Co., Laury's Station, Pa.

Mauser's Calf Meal,
Mauser's Hog Fattening Meal,
Mauser's Hog Growing Ration,
Queen City Dairy Ration.

Mauser Mill Co., Treichlers, Pa.

Chick Feed,
Corn and Oats Chop,
Hazleton Dairy Feed,
Hazleton Dry Mash,
Hazleton Horse Feed,
Hen Feed,
Pure Wheat Bran,
Red Star Mix Chop,
Wheat and Rye Red Middlings,
Wheat and Rye White Middlings.

Mayflower Mills, Fort Wayne, Ind.

Mayflower Bran,
Mayflower Middlings,
Mayflower Red Dog Flour.

Mays Seed Co., Womelsdorf, Pa.

May's Digester Tankage.

Mead, Johnson & Co., Evansville, Ind.

Mead's Corn Gluten Feed & Barley Malt,
Mead's Hominy Feed.

Melrose Milling Co., Melrose, Minn.

Fancy Bran,
Middlings.

Memphis Cotton Hull & Fibre Co., Memphis, Tenn.

Cyclone Cottonseed Feed,
Vaca Dairy Feed.

Mennel Milling Co., The, Toledo, Ohio.

Mennel's Corn and Oats Chop,
Mennel's Cracked Corn,
Mennel's Fancy Bran,
Mennel's Mainspring Feed,
Mennel's Middlings,
Mennel's Pure Barley Meal,
Mennel's Unbolted Corn Meal,
Mennel's Winter Mixed Feed.

Menomonie Milling Co., Menomonie, Wis.
Barley Feed.

Metzgar Seed & Oil Co., The, Toledo, Ohio.
Old Process Oil Meal.

Midland Linseed Products Co., Minneapolis, Minn.
Midland Brand Pure Old Process Ground Linseed Cake,
Old Process Ground Linseed Cake.

Midland Mill Co., Milwaukee, Wis.
Hominy Feed,
Rye Feed,
Wheat Bran and Mill Run Screenings,
Wheat Middlings and Mill Run Screenings.

Midland Milling Co., Kansas City, Mo.
Wheat Bran and Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
Wheat Shorts and Ground Wheat Screenings not exceeding Mill Run.

Millard & Seureman, Kingston, Pa.
Blue Ribbon Poultry Feed,
Blue Ribbon Poultry Mash,
No. 2, Poultry Feed,
Red Feather Poultry Feed.

Millbourne Mills, Philadelphia, Pa.
Millbourne Middlings,
Millbourne Pure Bran.

Miller & Son, J. B., New Danville, Pa.
Miller's Poultry Mash.

Miller & Son, L. F., Philadelphia, Pa.
Epoch Horse Feed.

Mills of Albert Lea, Albert Lea, Minn.
Albert Lea Rye Middlings with Ground Screenings not exceeding Mill Run,
Albert Lea Wheat Bran,
Albert Lea Wheat Flour Middlings with Ground Screenings not exceeding
Mill Run.

Milwaukee Grain & Feed Co., Milwaukee, Wis.
Crown Brewers Dried Grains,
Malt Sprouts.

Miner-Hillard Milling Co., Wilkes-Barre, Pa.
Buckwheat Middlings,
Colonial Middlings,
Little Chick Feed,
Mihimico Dairy Feed,
Mihimico Stock Feed,
Mixed Chicken Feed,
Mixed Chop,
No. 1 Chop,
No. 1. Scratch Feed,
Poultry Mash,
Rye Middlings,
Special Scratch Feed,
Steam Cooked Flakeline,
Steam Cooked Hominy Feed,
Wheat Bran,
Wheat Middlings.

Minnesota Linseed Oil Co., Minneapolis, Minn.
Ground Linseed Cake (Old Process).

Montana Flour Mills Co., Lewistown, Mont.
Montco Wheat Bran with Ground Screenings not exceeding Mill Run,
Montco Wheat Middlings with Ground Screenings not exceeding Mill Run.

Montgomery & Co., C. L., Memphis, Tenn.
Choice Brand Cotton Seed Meal,
Eagle Brand Cotton Seed Meal,
Globe Brand Cotton Seed Feed,
Star Brand Cottonseed Feed.

Moon Co. Inc., Geo. O., Binghamton, N. Y.
Moon's Scratch Feed.

Morris & Company, Chicago, Ill.

Big Brand Meat Scraps,
Big Brand Poultry Bone,
Big Fifty Meat Meal Digester Tankage,
Big Forty Meat Meal Digester Tankage,
Big Sixty Meat Meal Digester Tankage.

Morrow Milling Company, Produce Exchange, N. Y.
Reground Oat Hulls (Oat-Feed.)

Moseley & Motely Milling Co., Rochester, N. Y.

Big B Wheat Bran,
Big B Wheat Feed with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Moses Brothers, Eaton, N. Y.
3 M. M. M. Dairy Ration.

Moundridge Milling Co., Moundridge, Kans.
Wheat Bran and Screenings,
Wheat Brown Shorts and Screenings.

Mount Holly Feed & Grain Co., The, Mount Holly Springs, Pa.
Alfalfa Molasses Dairy Feed.

Moyer & Son, Souderton, Pa.
Mixed Chop for Horses,
Small Chick Feed,
Specialty Hen Feed,
Specialty Poultry Mash,
Specialty Scratch Feed.

Mutual Stock Food Co., Mifflinburg, Pa.
Mutual Stock Conditioner.

National Feed Co., St. Louis, Mo.
Alfalfa Meal,
Barley Middlings,
Barley Mixed Feed,
Corn Bran,
Hominy Feed,
Oat Feed,
Pure Wheat Bran,
Rye Middlings,
Wheat Bran with Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Screenings not exceeding Mill Run,
Wheat Shorts with Ground Screenings not exceeding Mill Run.

National Feed Mills, The, Yellow Springs, Ohio.
Golden Chick Feed,
Golden Hen Feed, no Grit,
Golden Mash Feed,
Natco Dairy Feed,
Silver Chick Feed,
Silver Hen Feed,
Silver Hen Feed, with Grit.

National Milling Co., The, Minneapolis, Minn.
Bran,
Choice Middlings,
Fancy Middlings,
Red Dog Flour.

Nester & Co., I. H., Philadelphia, Pa.
Condensed Buttermilk (Semi-Solid).

Neustadt & Co., New York City, N. Y.
Cocoa Bean Shell Meal,
Old Process Cocoanut Oil Cake Meal.

New Era Mills, Mansfield, Pa.
Calf Meal,
Dry Mash,
Mixed Hen Feed.

New Pargne Flour Mill Co., New Prague, Minn.
 Seal of Minnesota Wheat Flour Middlings,
 Seal of Minnesota Wheat Germ Middlings,
 Seal of Minnesota Wheat Low Grade Flour,
 Seal of Minnesota Wheat Standard Middlings.

Newsome Feed & Grain Co., The, Pittsburgh, Pa.
 Palmo Middlings,
 Palmo Mixed Feed.

New Ulm Roller Mill Co., New Ulm, Minn.
 Corn Feed Meal,
 Ground Corn and Oats,
 Hominy Feed,
 Rye Middlings,
 Rye Red Dog,
 Wheat Bran,
 Wheat Middlings.

New York Alfalfa Mills, Caledonia, N. Y.
 Genesee Alfalfa Meal.

Nickel Plate Elevator Co., Cleveland, Ohio.
 Alfalfa Molasses Horse Feed,
 Corn Feed Meal,
 Economy Chop Feed,
 Economy Digester Tankage,
 Economy Mash Feed,
 Economy Molasses Horse Feed.
 Economy Meat Scraps,
 Economy Pigeon Feed,
 Economy Scratch Feed,
 Economy Scratch, with Grit,
 Imperial Growing Feed,
 Imperial Molasses Horse Feed,
 Imperial Pigeon Feed,
 Imperial Scratch Feed,
 Imperial Chick Feed.

Nickel Plate Flour Mills, Erie, Pa.
 Mixed Grain,
 Poultry Mash.

Noblesville Milling Co., Noblesville, Ind.
 N. M. Co.'s Mixed Feed.

Northern, W. C., Little Rock, Ark.
 Standard Brand Cotton Seed Feed.

Northern Illinois Cereal Co., Lockport, Ill.
 Gold Medal Rye Flakes,
 Oat Feed,
 Oat Middlings.

Northwestern Consolidated Milling Co., The, Minneapolis, Minn.
 Barley Mill Feed with Ground Screenings not exceeding Mill Run,
 Planet Feed,
 Pure Wheat Bran,
 Rye Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Mixed Feed composed of Wheat Bran, Flour Middlings and Ground
 Screenings not exceeding Mill Run,
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
 XXX Comet Red Dog Flour.

Northwestern Elevator & Mill Co., Toledo, Ohio.
 Soft Winter Wheat Bran,
 Soft Winter Wheat Middlings with Screenings not exceeding Mill Run,
 Soft Winter Wheat Mixed Feed.

Northwestern Milling Co., Little Falls, Minn.
 Bran,
 Fancy Middlings,
 Low Grade Flour,
 N. W. Mixed Feed.

Norton & Co., Willis, Topeka, Kans.
 Wheat Bran and Screenings,
 Wheat Shorts and Screenings.

Nowak Milling Corporation, Buffalo, N. Y.

Domino Alfalfa Meal,
 Domino Butterine Dairy Feed,
 Domino Calf Meal,
 Domino Chick Feed,
 Domino Creamery Feed,
 Domino Cream-O-Lene Dairy Ration,
 Domino Corn Feed Meal,
 Domino Corn Meal,
 Domino Developing Feed,
 Domino Growing Mash,
 Domino Horse Feed with Alfalfa,
 Domino Laying Mash,
 Domino Milk Maker Dairy Feed,
 Domino Pigeon Feed,
 Domino Scratch Feed,
 Domino Stock Feed,
 Domino Sweet Hog Meal,
 Domino Vin-O-Lene Horse Feed,
 Fidelity Horse Feed,
 Fidelity Scratch Feed,
 Fidelity Stock Feed,
 Marathon Scratch Feed,
 24½ Protein Dry Dairy Ration,
 24½ Sweet Dairy Ration.

Oil Seeds Co., New York City, N. Y.

Alpha Brand Peanut Oil Meal,
 Coco Brand Coconut Oil Meal.

O. K. Company, The, New York City, N. Y.

Puritan Chick Food.

Omaha Alfalfa Milling Co., Omaha, Nebr.

Al-Corn-O Horse Feed,
 Alfalfa Horse & Mule Feed,
 Alfalfa Meal,
 Alfalmo,
 Baby Chick Feed,
 Beauty Dairy Feed,
 Big Chick Developing Feed,
 Cream Alfalfa Dairy No. 1.
 Cream Alfalfa Dairy No. 2,
 Cream Alfalfa Dairy No. 3.
 Eggs-er-size Scratch Feed,
 Evergreen Horse Feed,
 Grainfalmo Horse Feed,
 Green Meadow Dairy Feed,
 Molfaleo Cattle Fattener,
 Oatfalmo,
 Omaha Special Horse Feed,
 Peerless Horse Feed,
 Perfection Horse Feed,

Omaha Flour Mill Co., Omaha, Nebr.

Ofmco Special Wheat Middlings and Ground Screenings not exceeding Mill Run,
 Omar Pure Wheat White Shorts or Red Dog,
 Omar Wheat Flour Middlings with Ground Screenings not exceeding 8 per cent.,
 Omar Wheat Shorts and Ground Screenings not exceeding 8 per cent.

Osakis Milling Co., Osakis, Minn.

Fancy Bran,
 Middlings.

Park & Pollard Co., of Ill. The, Chicago, Ill.

Park & Pollard Cottonseed Feed,
 Park & Pollard Stock Feed.

Park & Pollard Co., The, Boston, Mass.

Baby Buster Chick Feed,
 Growing Feed,
 Intermediate Chick Feed,
 Lay or Bust Dry Mash,
 Overall Corn ½ and ½ Oats,

Over The Top Scratch Feed,
 Park & Pollard Alfalfa,
 Pontiac Scratch Feed,
 Red Ribbon Chick Feed,
 Red Ribbon Scratch Feed,
 Stevens "44" Dairy Ration.

Park River Milling Co., Park River, N. D.
 Dakota Fancy Spring Mixed Feed.

Patent Cereal Co., The, Geneva, N. Y.
 Hominy Feed.

Penn Grains & Feed Co., Philadelphia, Pa.
 Malt Sprouts,
 Peerless Brewers' Dried Grains.
 Penngrains Brewers' Dried Grains.

Perot's Sons' Malting Co., The Francis, Philadelphia, Pa.
 Malt Sprouts,

Peter's Mill Co., M. C., Omaha, Nebr.
 Peter's Alfalfa Meal finely ground,
 Peter's Alfalfa Queen Dairy Feed,
 Peters' Alfalfa-Fat Alfalfa and Molasses Feed,
 Peters' Arab Horse Feed,
 Peters' Bergen Horse Feed,
 Peters' Bergen Scratch Feed,
 Peters' Henypeny Scratch Feed,
 Peters' High Score Alfalfa and Molasses Feed,
 Peters' Hog Profit Swine Feed,
 Peters' June Pasture Alfalfa and Molasses Feed,
 Peters' King Corn Horse and Mule Feed,
 Peters' Lucerne Choice Alfalfa Meal,
 Peters' Rabbit Mule Feed,
 Peters' Red Feather Poultry Chick Feed,
 Peters' Red Feather Poultry Mash Feed,
 Peters' Red Feather Poultry Scratch Feed,
 Peters' Re-Peter Dairy Feed,
 Peters' Re-Peter Horse Feed,
 Peters' Re-Peter Poultry Scratch Feed,
 Peters' Sell-a-Gen Horse and Mule Feed.
 Peters' Submilk Calf Feed.

Pfeffer Milling Co., Lebanon, Ill.
 Pfeffer's Corn Bran,
 Pfeffer's Hominy Feed,
 Pfeffer's Wheat Bran,
 Wheat Middlings with Ground Screenings not exceeding Mill Run.

Phelps & Sibley Co., Cuba, N. Y.
 Phelps & Sibley Co.'s A Corn Feed Meal,
 Phelps & Sibley Co.'s Favorite Mixed Grains,
 Phelps & Sibley Co.'s Favorite Pigeon Mixture,
 Phelps & Sibley Co.'s Favorite Poultry Mash,
 Phelps & Sibley Co.'s Scratch Grains,
 Phelps & Sibley Co.'s Stock Feed,
 Phelps & Sibley Co.'s Wheat Bran with Ground Screenings not exceeding
 Mill Run,
 Phelps & Sibley Co.'s Wheat Middlings with Ground Screenings not ex-
 ceeding Mill Run,
 Phelps & Sibley Co.'s White P. & S. Feed,
 Phelps & Sibley Co.'s Yellow Corn Meal,
 Phelps & Sibley Co.'s Yellow P. & S. Feed.

Philadelphia Seed Co. Inc., Philadelphia, Pa.
 Beef Scraps,
 Hog Tankage,
 N. A. Competition Laying Mash,
 N. A. Competition Scratch Feed,
 Purgain Chick Developing Mash,
 Purgain Chick Developer No. 1,
 Purgain Chick Developer No. 2,
 Purgain Chick Starter No. 1,
 Purgain Chick Starter No. 2,
 Purgain Laying Mash Feed No. 1,
 Purgain Pigeon Feed,

Purgain Scratch Poultry Feed No. 1,
 Purgain Scratch Poultry Feed No. 2,
 Special Fanciers Pigeon Feed No. 1,
 Special Fanciers Pigeon Feed No. 2,
 Special Fanciers Pigeon Feed No. 3,
 Special Fanciers Pigeon Feed No. 4,
 Tankage.

Phoenix Milling Co., Minneapolis, Minn.
 Bran,
 Middlings,
 Red Dog.

Piel Brothers Starch Co., Indianapolis, Ind.
 P. Bro. Corn Gluteu Feed.

Pillsbury Flour Mills Co., Minneapolis, Minn.
 Pillsbury's Duram Wheat Brau with Ground Screenings not exceeding Mill Run,
 Pillsbury's Durum Wheat Standard "B" Middlings with Ground Screenings not exceeding Mill Run,
 Pillsbury's Fancy Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
 Pillsbury's Rye Middlings with Ground Screenings not exceeding Mill Run,
 Pillsbury's Ryex,
 Pillsbury's Wheat "A" Middlings with Grouud Screenings not exceeding Mill Run,
 Pillsbury's Wheat Bran with Ground Screenings not exceeding Mill Run,
 Pillsbury's Standard Middlings (B) with Ground Screeniugs not exceeding Mill Run.

Piqua Milling Co., The, Piqua, Ohio.
 Wheat Bran.
 Wheat Middlings.

Pittsburgh Provision & Packing Co., Pittsburgh, Pa.
 Beef Meal & Bone,
 Beef Scrap & Bone,
 Digestible Tankage,
 Dried Blood,
 Poultry Boue.

Plant Milling Co., George P., St. Louis, Mo.
 "P" Wheat Bran with Screenings not exceeding Mill Run,
 "P" Wheat Middlings with Screenings not exceeding Mill Run,
 "P" Wheat Mixed Feed with Screenings not exceeding Mill Run.

Planters Oil Mill & Gin Co., Kosciusko, Miss.
 Planters Perfect Brand Cottonseed Feed.

Plymouth Milling Co., LeMars, Iowa.
 Plymouth Hominy Feed.

Postum Cereal Co., Battle Creek, Mich.
 Burt's Hominy Feed,
 CXX Feed,
 Flaked Corn Feed,

Pottsville Feed Co., Pottsville, Pa.
 Dried Brewers' Graius.

Prairie State Milling Co., Chicago, Ill.
 American Horse Feed,
 Emerald Horse Feed,
 Garland Chick Feed, no Grit,
 Garland Chick Feed, with Grit,
 Garland Scratch Feed, no Grit,
 Garland Scratch Feed, with Grit,
 Greenfield Alfalfa and Molasses Feed,
 Prairie State Alfalfa Meal,
 Prairie State Chick Feed, no Grit,
 Prairie State Chick Feed, with Grit,
 Prairie State Corn Feed Meal,
 Prairie State Chop Feed,
 Prairie State Coarse Chick Feed, no Grit,
 Prairie State Coarse Chick Feed, with Grit,
 Prairie State Pigeon Feed, no Grit,

Prairie State Pigeon Feed, with Grit,
 Prairie State Poultry Mash,
 Prairie State Scratch Feed, no Grit,
 Prairie State Scratch Feed, with Grit,
 Red Crown Scratch Feed, no Grit,
 Red Crown Scratch Feed, with Grit.

Pratt Food Co., Philadelphia, Pa.
 Pratt's Baby Chick Food,
 Pratt's Calf Meal.

Preston Brothers, Canton, Pa.
 Preston's Scratch Grains.

Preston & Jaquish, Troy, Pa.
 Corn & Oat Chop,
 Dry Mash,
 Hen Feed,
 Scratch Feed.

Proctor & Gamble Distributing Co., The, Cincinnati, Ohio.
 P. & G. Copra Oil Meal.

Pure Cane Molasses Corporation, New York City, N. Y.
 Cane Mola (100% Pure Sugar Cane Molasses without adulterants).

Purity Oats Co., Davenport, Iowa.
 Iowa Chick Feed, no Grit,
 Iowa Chick Feed, with Grit,
 Iowa Dairy Feed,
 Iowa Horse Feed,
 Iowa Scratch Feed, no Grit,
 Iowa Scratch Feed, with Grit,
 Iowa Stock Feed,
 Loyal Stock Feed,
 Purity Oat Feed,
 Scattergood Chick Feed, no Grit,
 Scattergood Chick Feed, with Grit,
 Scattergood Horse Feed,
 Scattergood Oat Feed,
 Scattergood Poultry Mash,
 Scattergood Scratch, no Grit,
 Scattergood Scratch, with Grit,
 Scattergood Stock Feed,
 Tom Boy Chick Feed, no Grit,
 Tom Boy Chick Feed, with Grit,
 Tom Boy Dairy Feed,
 Tom Boy Poultry Mash,
 Tom Boy Scratch Feed, no Grit,
 Tom Boy Scratch Feed, with Grit,
 Tom Boy Stock Feed.

Purity Oats Co., Keokuk, Iowa.
 Purity Oat Feed.

Quaker City Flour Mills Co., Philadelphia, Pa.
 Rye Feed,
 Spring Wheat Bran,
 Spring Wheat Middlings,
 Winter Wheat Bran,
 Winter Wheat Middlings.

Quaker Oats Co., The, Chicago, Ill.
 American Poultry Feed,
 Big Egg Scratch Grains,
 Blue Ribbon Scratch Grains,
 Boss Feed,
 Buckeye Feed,
 C. O. & B. Feed,
 Early Bird Scratch Grains,
 Excelsior Feed,
 Ful-O-Pep Dry Mash,
 Ful-O-Pep Growing Mash,
 Ful-O-Pep Scratch Grains,
 Pansy Scratch Grains,
 Quaker Poultry Mash,
 Quaker Scratch Grains,
 Red Star Feed,

Schumacher Calf Meal,
 Schumacher Feed,
 Schumacher Poultry Mash,
 Schumacher Scratch Grains,
 Schumacher Special Horse Feed,
 Sterling Feed,
 Sterling Horse Feed,
 Sterling Scratch Grains,
 Victor Feed,
 White Diamond Feed,
 Yellow Hominy Feed.

Rachau, J. L., Clintondale, Pa.
 Hen Food,
 Mixed Chop,
 Pure Corn Chop,
 Wheat Bran,
 Wheat Middlings,

Ralston Purina Co., St. Louis, Mo.
 Brown Mule Feed with Molasses,
 Good Luck Dairy Feed,
 Good Luck Feed with Molasses,
 Protena Dairy Feed,
 Purina Calf Chow,
 Purina Chick Feed,
 Purina Chicken Chowder with Charcoal not over 1%,
 Purina Chicken Fatena Feed,
 Purina Cow Chow Feed,
 Purina Feed with Molasses,
 Purina O'Molene Feed,
 Purina Pig Chow with Charcoal not over 3%,
 Purina Pigeon Feed,
 Purina Scratch Feed,
 Purina Steer Fatena Feed with Charcoal,
 XX Good Feed with Molasses.

Ramsey, J. D., Pittsburgh, Pa.
 Ramsey's Feeding Tankage.

Rankin & Co., M. G., Milwaukee, Wis.
 Wheat Middlings with Ground Screenings not exceeding Mill Run,

Rapier Sugar Feed Co., Owensboro, Ky.
 Rapier's Creamo Dairy Feed.

Rawleigh Medical Co., The W. T., Freeport, Ill.
 Rawleigh's Poultry Powder,
 Rawleigh's Stock Tonic.

Reading Abbottoir Co., Reading, Pa.
 Race Hog Feed.

Reading Bone Fertilizer Co., Reading, Pa.
 Reading Poultry Bone,
 Reading Poultry Meat.

Redfield Co-Operative Mills, Redfield, S. D.
 Bran,
 Shorts.

Red River Milling Co., Fergus Falls, Minn.
 Bran,
 Standard Middlings.

Red Star Milling Co., The, Wichita, Kans.
 Wheat Bran and Screenings,
 Wheat Mixed Feed and Screenings,
 Wheat Shorts and Screenings.

Red Wing Linseed Co., Red Wing, Minn.
 Red Wing Old Process Ground Oil Cake.

Red Wing Milling Co., Red Wing, Minn.
 Bixota Bran with Ground Screenings not exceeding Mill Run,
 Bixota Red Dog Flour,
 Bixota Standard Middlings,
 Bixota Wheat Middlings,

Reece & Greenly, Millville, Pa.
Buckwheat Feed.

Rees, A. F., Hanover, Pa.
Rees Pure Hog Tankage.

Reichard, Robert A., Allentown, Pa.
Reichard's Beef & Bone Scrap,
Reichard's Beef Granules,
Reichard's Beef Meal,
Reichard's Blood Meal,
Reichard's Bone Granules,
Reichard's Bone Meal,
Reichard's High Grade Beef Scrap,
Reichard's 40% Digester Tankage,
Reichard's 60% Digester Tankage.

Replogle, U. E., Woodbury, Pa.
Bran,
Corn Chop,
Horse chop,
Mixed Feed,
Rye Chop,
Wheat Middlings.

Richards-Evans Co., The, Cortland, Ohio.
Corn Feed Meal,
Cortland Middlings,
Cortland Mixed Feed.

Robbins Milling Co., Wilkes-Barre, Pa.
B Chop,
Luzerne Capital Stock Feed.

Robin Hood Mills, Ltd., Moose Jaw, Sask., Canada.

Robin Hood Bran,
Robin Hood Bran with Ground Screenings not exceeding Mill Run.
Robin Hood Germ Middlings,
Robin Hood Oat Feed,
Robin Hood Pulverized Oat Feed,
Robin Hood Shorts.

Robinson, Jr., George B., New York City, N. Y.
Cottonseed Feed,
Cottonseed Meal,
Hominy Feed,
Linseed Meal.

Robinson Milling Co., The, Salina, Kans.
Standard Short and Screenings,
Wheat Bran and Screenings.

Rockwell, G. G., North Baltimore, Ohio.
Bran,
Middlings.

Rockwell & Son, H., Canton, Pa.
Pure Hominy Feed.

Rosenbaum Brothers, Chicago, Ill.
Horse Sense Grain Feed,
Rosebro Chick Scratch, no Grit,
Rosebro Chick Scratch, with Grit,
Rosebro Horse Feed,
Rosebro Scratch Feed, no Grit,
Rosebro Scratch Feed, with Grit,
Vitality Alfalfa Meal,
Vitality Chick Mash with Milk Albumen,
Vitality Chick Scratch, no Grit,
Vitality Chick Scratch, with Grit,
Vitality Dairy Feed,
Vitality Egg Mash with Milk Albumen,
Vitality Fattening Mash with Milk Albumen,
Vitality Growing Mash with Milk Albumen,
Vitality Growing Mash, no Grit,
Vitality Growing Mash, with Grit,
Vitality Hog Feed,
Vitality Hog Feed with Milk Albumen,

- Vitality Horse Feed,
 Vitality Pigeon Feed, no Grit,
 Vitality Pigeon Feed, no Grit; no Corn,
 Vitality Scratch Feed, no Grit, ...
 Vitality Scratch Feed, with Grit,
 Will Pay Chick Scratch, no Grit,
 Will Pay Chick Scratch, with Grit,
 Will Pay Dairy Feed,
 Will Pay Hog Feed,
 Will Pay Hog Feed with Milk Albumen & Pure Blood Meal
 Will Pay Hog Feed with Pure Blood Meal,
 Will Pay Molasses Feed,
 Will Pay Scratch Feed, no Grit,
 Will Pay Scratch Feed, with Grit,
 Will Pay Stock Feed with Molasses,
 77 Dairy Feed,
 77 Scratch Feed, no Grit,
 77 Scratch Feed, with Grit.
- Royal Feed and Milling Co., Memphis, Tenn.
 Stafolife Brand Cottonseed Meal,
 Sunrise Brand Cottonseed Feed.
- Royal Milling Co., Great Falls, Mont.
 Royal Bran,
 Royal Mixed Feed,
 Royal Standard Middlings.
- Russell-Miller Milling Co., Minneapolis, Minn.
 Alta Middlings,
 Bran,
 Flour Middlings,
 Occident Wheat Feed,
 Red Dog Flour,
 Standard Middlings.
- Russia Cement Co., Gloucester, Mass.
 Chick-Chuk (Fish Meal).
- Ryde & Company, Chicago, Ill.
 Ryde's Cream Calf Meal,
 Ryde's Pig Meal.
- Ryder, J. O., Matamoras, Pa.
 Cackle Brand Meat and Bone Scraps.
- Ryon, J. W., Elmira, N. Y.
 Dairy Feed or Ration.
- Saeger Milling Co., Allentown, Pa.
 Hanover Scratch Feed,
 Mix Chop,
 Wheat Bran,
 Wheat Middlings.
- Saginaw Milling Co., Saginaw, Mich.
 Ogemaw A. A. Pigeon Feed,
 Red Hen Chick Starter,
 Red Hen Dry Mash,
 Red Hen Scratch Feed,
 Rye Mixed Feed,
 Wolverine Scratch Feed,
- Sauers Milling Co., Evansville, Ill.
 Soft Winter Wheat Bran with Ground Screenings not exceeding Mill Run,
 Soft Winter Wheat Middlings with Ground Screenings not exceeding Mill Run.
- Saxony Mills, St. Louis, Mo.
 Choice Wheat Middlings,
 Mixed Feed with Ground Screenings not exceeding Mill Run,
 Wheat Bran with Ground Screenings not exceeding Mill Run.
- Scarlett & Co., William G., Baltimore, Md.
 Oriole Brand AA Pigeon Feed,
 Oriole Brand AA Pigeon Feed with Flint Corn,
 Oriole Brand AAA Pigeon Feed.

Oriole Brand Beef Scraps,
 Oriole Brand Chick Feed,
 Oriole Brand Dry Mash,
 Oriole Brand Scratch Feed,
 Oriole Brand Special Pigeon Feed.

Scattergood & Co., S. F., Philadelphia, Pa.
 Columbus Gluten Feed,
 Mogul Brand Cottonseed Feed,
 Sunset Brand Cottonseed Feed.

Schmucker, C. E., Watsonstown, Pa.
 Schmucker's Complete Dairy Feed,
 Schmucker's Hog Grower.

Schneider Brothers Co., Mount Carmel, Pa.
 Golden Brand Chick Feed,
 Golden Brand Poultry Feed,
 S-Bro-Co Brand Laying Mash.

Schooley & Son, H. N., Luzerne, Pa.
 Hen's Delight Scratch Feed,
 No. 1 Mixed Chop,
 No. 2 Mixed Chop.

Schreiber Milling & Grain Co., St. Joseph, Mo.
 Wheatco Feed.

Scott County Milling Co., The, Sikeston, Mo.
 Corn Bran,
 Hominy Feed,
 Mixed Feed,
 Pure Corn Chop,
 Pure Wheat Shorts,
 Red Comb Hen Feed,
 Unbolted Corn Meal,
 Wheat Bran,

Serous Milling Co., Mankato, Minn.
 Serous Flaky Bran,
 Serous Standard Middlings,
 Serous White Flour Middlings,
 Sterling Red Dog.

Shane Brothers & Wilson Co., Philadelphia, Pa.
 Clover Leaf Wheat Bran,
 Egyptian Mixed feed,
 Egyptian Stock Feed,
 Milbourne Fancy Mixed Feed,
 Milbourne Pure Bran,
 Milbourne Standard Middlings,
 Red Dog Flour,
 Snowball Wheat Flour Middlings,
 Wheat Standard Middlings.

Sheets Elevator Co., The, Cleveland, Ohio.
 Conkey's Buttermilk Meat, Grain & Bone Mash,
 Conkey's Buttermilk Starting Feed (for Chicks).

Sheffield-King Co., Minneapolis, Minn.
 Criterion Barley Feed,
 Fairbow Middlings and Pulverized Wheat Screenings,
 Fancy Brodflake Bran with Ground Screenings,
 Fancy Low Grade Flour,
 Gold Mine Feed,
 King's Corn Feed Meal,
 Whitehope Middlings and Pulverized Wheat Screenings.

Shellabarger Mill & Elevator Co., Salina, Kans.
 Wheat Bran and Screenings,
 Wheat Brown Shorts and Screenings,
 Wheat Mixed Feed and Screenings.

Shepard, Clark & Co., Cleveland, Ohio.
 Cleveland Brand Cottonseed Feed,
 Cocoanut Oil Cake Meal.

Sherwin-Williams Co., Cleveland, Ohio.
S. W. C. Linseed Meal.

Shingleur, F. A., Jackson, Miss.
Shingstock Cottonseed Feed,
Shingstock Prime Cottonseed Meal.

Shredded Wheat Co., The, Niagara Falls, N. Y.
Shredded Wheat Waste.

Shute & Co., E. L., Philadelphia, Pa.
Challenge Horse Feed,
Shute's Horse & Mule Feed,
Shute's Special Horse Feed.

Siegel, George L., Erie, Pa.
Government Mash.

Simpson & Co., The W. A., Baltimore, Md.
Champion Brand Chick Feed,
Champion Brand Chick Starter,
Champion Brand Meat & Bone Scraps,
Champion Brand Scratch Feed.

Sleepy Eye Mills, The, Sleepy Eye, Minn.
Flour Middlings and Screenings,
Sleepy Eye Fancy White Middlings and Screenings,
Wheat Bran and Screenings.

Smith Brothers, Bradford, Pa.
Egg Mash.

Smith, Parry & Co., Milwaukee, Wis.
Vitax Dairy Feed,
4 All Stock Feed.

Smith & Waldo, Wysox, Pa.
S. & W. Laying Mash.

Snively & Sons, J. C. Landisville, Pa.
Snively's Poultry Mash.

Southern Cotton Oil Co., Montgomery, Ala.
Boyeta Brand Cottonseed Hull & Meal Mixture,
Good Cotton Seed Feed,
SCO Co. Cottonseed Feed.

Southwestern Milling Co., The, Kansas City, Mo.
Aristos Mixed Feed and Wheat Scourings,
Merit Pure Mixed Feed,
Optima Pure Soft Wheat Bran,
Optima Pure Soft Wheat Mixed Feed,
Red Turkey Pure Wheat Bran,
Red Turkey Gray Shorts and Wheat Scourings,
Red Turkey Pure Wheat Fancy White Middlings,
S. W. Mixed Feed and Wheat Scourings,
Red Turkey Wheat Brown Shorts and Wheat Scourings.

Spanogle-Yeager Milling Co., Lewistown, Pa.
B. Stock Feed,
Mt. Rock Hog Feed.

Sparks Milling Co., Alton, Ill.
Try-Me Mixed Feed.

Sparks Milling Co., Terre Haute, Ind.
Wabash Mixed Feed.

Spratt Patent Ltd., Newark, N. J.
Spratt's Bantam Food No. 4.
Spratt's Calf Meal,
Spratt's Chicgrain,
Spratt's Chick Meal No. 5,
Spratt's Chick Meal No. 12,
Spratt's Crissel,
Spratt's Developing Food,
Spratt's Egg Mash Food,
Spratt's Ground Meat Scrap,
Spratt's Growing Mash Food,

Spratt's Pheasant Food No. 3.
 Spratt's Pheasant Meal No. 5.
 Spratt's Pheasant Meal No. 12,
 Spratt's Pigeon Food No. 4,
 Spratt's Pigeon Food No. 5,
 Spratt's Pigeon Food No. 3,
 Spratt's Scratch Food,
 Spratt's Turkey Food No. 3,
 Spratt's Turkey Meal No. 5,
 Spratt's Utility Mash Food,
 Spratt's Wild Duck Meal.

Spruce Creek Milling Co., The, Spruce Creek, Pa.
 Corn & Oats Chop,
 Mixed Feed,
 Paragon Poultry Mash,
 Paragon Scratch Feed.

Stafford Flour Mills Co., The, Stafford, Kans.
 Standard Wheat Shorts,
 Wheat Bran & Screenings,
 Wheat Mixed Feed & Screenings.

Staley Manufacturing Co., A. E., Decatur, Ill.
 Staley's Corn Gluten Feed.

Standard By-Products Co. Inc., Louisville, Ky.
 Standard Meat Meal.

Standard Cereal Co., The, Chillicothe, Ohio.
 Logan Hominy Feed,
 Standco Feed Meal,
 Standco Hominy Feed,
 Standco Middlings,
 Standco Mixed Feed,
 Standco Wheat Bran.

Standard-Tilton Milling Co., St. Louis, Mo.
 Wheat Bran with Screenings not exceeding Mill run.
 Wheat Middlings with Screenings not exceeding Mill Run,
 Wheat Mixed Feed with Screenings not exceeding Mill run.

Stanley Co., John T., New York City, N. Y.
 Stanley's High Protein Meat Scraps.

Star & Crescent Milling Co., Chicago, Ill.
 Barley Feed,
 Crescent Bran with Ground Screenings not exceeding Mill Run,
 Crescent Middlings,
 Rye Feed,
 Star Bran with Ground Screenings not exceeding Mill Run,
 Star Middlings with Ground Screenings not exceeding Mill Run,
 Star Red Dog Flour.

Stauffer, H. M., Leola, Pa.
 Chick Feed,
 Dry Mash,
 Scratch Feed,
 Special Chick Feed.

Stern & Sons, Inc., Bernhard, Milwaukee, Wis.
 Atlas Wheat Bran with Ground Screenings not exceeding Mill Run,
 Atlas Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Standard Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Atlas Red Dog.

Stewart, Jesse C., Pittsburgh, Pa.
 Extra Choice Cotton Seed Meal,
 Shadyside Stock Feed.

Stock & Sons, F. W., Hillsdale, Mich.
 Bran,
 Middlings,
 Monarch Mixed Feed,
 Wheat Bran with Mill Run Screenings.

Stokes Milling Co., Watertown, S. D.

Wheat Bran with Ground Screenings not exceeding Mill Run,
Standard Shorts with Ground Screenings not exceeding Mill Run.

St. Paul Milling Co., St. Paul, Minn.

Komo Pure Wheat Bran,
Komo Pure Wheat Low Grade,
Komo Standard Middlings with Ground Screenings not exceeding Mill Run.

Stratton-Ladish Milling Co., Milwaukee, Wis.

National Dairy Feed,
National Scratch Feed,
National Stock Feed,
Reeord Maker Chick Feed,
Reeord Maker Scratch Feed,
Stra-Lad Horse Feed,
True Value Chick Developer,
True Value Chick Feed,
True Value Hog Feed,
True Value Horse Feed,
True Value Poultry Mash,
True Value Pure Rye Midds.,
True Value Scratch Feed,
True Value Special Stock Feed,
True Value Stock Feed,
Wisconsin Green Tag Mixed Feed.

Suffern-Hunt Mills, Decatur, Ill.

Acme Hominy Feed.

Sugarine Co., The, Peoria, Ill.

Ideal Horse Feed,
Ideal Horse Feed with Alfalfa,
Suco Dairy Feed,
Suco Stock Feed,
Sugarine Chick Feed,
Sugarine Dairy Feed,
Sugarine Horse Feed with Alfalfa,
Universal Scratch Feed.

Sutton & Greenawalt, West Newton, Pa.

Sutton & Greenawalt No. 1 Corn Chop,
Sutton & Greenawalt No. 2 Corn Chop,
Sutton & Greenawalt Corn and Oats Chop.

Swift & Company, Chicago, Ill.

Swift's Blood Meal.
Swift's Digester Tankage.
Swift's Eureka Meat Scraps.
Swift's Gromeal.
Swift's Laymore Meat Scraps.
Swift's Meat Scraps.
Swift's Meat Meal.
Swift's Poultry Bone.
Swift's Soluble Blood Flour.

Swope Brothers, Johnstown, Pa.

Banner Chick Feed.
Corn and Oats Chop,
Corn, Oats and Barley Chop.
Egg Maker Dry Mash,
Excelsior Chicken Feed.

Syracuse Rendering Co., Syracuse, N. Y.

Syracuse Bone Meal Cattle and Poultry.
Syracuse Bone and Meat Meal.
Cracked Bone for Poultry.
Poultry Food.

Taylor Commission Co., Atlanta, Ga.

Taylor Brand Cottonseed Feed.

Teed's Sons, W. I., Tyrone, Pa.

Teeds Ready Mixed Laying Mash.

Tennessee Fibre Co., Memphis, Tenn.

Creamo Brand Cottonseed Feed.

Thompson & Co., Pittsburgh, Pa.
Oil Meal.

Thompson & Glenn, Butler, Pa.
Perfection Dairy Feed.

Thorton & Chester Milling Co., Buffalo, N. Y.
T. & C. Wheat Bran with Ground Screenings not exceeding Mill Run.
T. & C. Wheat Coarse Middlings with Ground Screenings not exceeding Mill Run.
T. & C. Wheat Middlings with Ground Screenings not exceeding Mill Run.
T. & C. Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Tioga Mill & Elevator Co., Waverly, N. Y.
Alfalfa Meal.
Blue Brand Tioga Dairy Feed.
Colonel's Ration.
Corn Feed Meal.
Derby Chick Feed.
Derby Horse Feed.
Derby Meal.
Derby Scratch Feed.
Omar Mixed Feed.
Red Brand Tioga Dairy Feed.
Tioga Brood Sow Feed & Pig Feed.
Tioga Chick Feed.
Tioga Fattening Hog Feed.
Tioga Growing Grains.
Tioga Growing Mash.
Tioga Growing Shout Feed.
Tioga Poultry Grains.
Tioga Laying Food.
Tioga Wheat Middlings.
Waverly Flour Wheat Middlings.
White Brand Tioga Dairy Feed.

Toledo Grain & Milling Co., The, Toledo, Ohio.
Camp's "A" Yellow Chop Feed.
Camp's Clover Leaf Scratch Feed, no Grit.
Camp's Clover Leaf Scratch Feed, with Grit.
Camp's C. O. & B. Chop Feed.
Camp's C. O. B. K. Chop Feed.
Camp's Corn Meal Stone Ground.
Camp's Invincible Alfalfa Feed.
Camp's Keystone Chop Feed.
Camp's Little Wonder Chop Feed.
Camp's Maumee Stock Feed.
Camp's M. D. Chop Feed.
Camp's No. 1 Yellow Chop Feed.
Camp's No. 1 White Middlings.
Camp's Red Ball Chick Feed.
Camp's Red Ball Egg Mash.
Camp's Red Ball Scratch Feed, no Grit.
Camp's Red Ball Scratch Feed, with Grit.
Camp's Standard Wheat Middlings.
Camp's Stock Feed.
Camp's Surprise Chop Feed.
Camp's Wamba Feed.
Camp's Winter Wheat Bran.

Toledo Seed & Oil Co., The, Toledo, Ohio.
Major Brand Old Process Oil Meal.

Traders Flour & Feed Co., Stroudsburg, Pa.
Mixed Feed.

Trow Company, W., Madison, Ind.
Trow's Wheat Bran with Ground Screenings not exceeding Mill Run.
Trow's Wheat Middlings with Ground Screenings not exceeding Mill Run.
Trow's Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Tyler & Co., (Address Unknown).
Wheat Bran & Screenings not to exceed 8%.
Wheat Gray Shorts.

Ubiko Milling Co., The, Cincinnati, Ohio.
Ubiko Buttermilk Egg Mash.
Ubiko Buttermilk Growing Mash.
Ubiko Horse and Stock Feed.
Ubiko Pig Meal.
Union Grains, Ubiko, Biles Ready Dairy Ration.

- Union Elevator Co., The, Cleveland, Ohio.
 Euclid Chick Feed.
 Euclid Dairy Feed.
 Euclid Hen Food.
 Euclid Hog Feed.
 Euclid Mash Feed.
 Euclid Shote Force.
- Union Seed & Fertilizer Co., New York City, N. Y.
 American Red Tag Cotton Seed Meal.
 Columbia Cotton Seed Feed.
 Surety Brand Cottonseed Feed.
 Yellow Tag Cotton Seed Meal.
- Union Starch & Refining Co., Edinburgh, Ind.
 Union Corn Germ Meal.
 Union Corn Gluten Feed.
- United States Food Products Corporation, Peoria, Ill.
 Atlas Distillers' Grains.
- Urban Milling Co., George, Buffalo, N. Y.
 Wheat Bran with Ground Screenings not exceeding Mill Run.
 Wheat Middlings with Ground Screenings not exceeding Mill Run.
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.
- Valier & Spies Milling Co., Marine, Ill.
 Valier's Wheat Bran with Ground Wheat Screenings.
 Valier's Wheat Middlings with Ground Wheat Screenings.
 Valier's Wheat Mixed Feed with Ground Screenings.
- Valley City Milling Co., Grand Rapids, Mich.
 Rowena Rye Feed.
 Rowena Wheat Bran with Ground Screenings not exceeding Mill Run.
 Rowena Wheat Cowfeed with Ground Screenings not exceeding Mill Run.
 Rowena Wheat Middlings with Ground Screenings not exceeding Mill Run.
- Van Iderstine Co., The, Long Island City, N. Y.
 Van Iderstine Blood Meal.
 Van Iderstine Granulated Bone.
 Van Iderstine High Protein Meat Scraps.
 Van Iderstine Pure Ground Meat Scraps.
 Van Iderstine Raw Bone Meal.
 Van Iderstine 40 per cent. Protein Digester Tankage.
 Van Iderstine 60 per cent. Protein Digester Tankage.
- Virginia Feed & Milling Corporation, Alexandria, Va.
 Arlington Hog Meal.
 Arlington Horse Feed.
 Arlington Horse and Mule Feed.
 Blue Bell Dairy Feed.
 Colonial Dairy Feed.
 Colonial Horse and Mule Feed.
 Crown Chick Feed.
 Crown Mash Feed.
 Crown Poultry Feed, no Grit.
 Crown Poultry Feed, with Grit.
 Eureka Dairy Feed.
 Fairfax Dairy Feed.
 Fairfax Horse Feed.
 Fairfax Horse and Mule Feed.
 Old Dominion Horse and Mule Feed.
 Red Star Dairy Feed.
 Summerine Horse Feed.
 Supreme Dairy Feed.
 Supreme Horse Feed.
 Supreme Horse and Mule Feed.
- Voight Milling Co., Grand Rapids, Mich.
 Voight's Cow Feed containing Mill Run Screenings.
 Voight's Crescent Bran containing Mill Run Screenings.
 Voight's Crescent Middlings containing Mill Run Screenings.
 Voight's Crescent Rye Feed.
- Wade & Sons, John, Memphis, Tenn.
 Big Value Hen Feed.
 Big Value Horse & Mule Feed.
 Wade's 24% Protein Dairy Feed.

Wagar & Co., C. W., Philadelphia, Pa.

Corn Bran.
Hominy Feed.
Union Corn Gluten Feed.

Washburn-Crosby Co., Minneapolis, Minn.

Adrian Red Dog Flour.
Corn Feed Meal.
Ground Whole Barley.
Rye Middlings.
Wheat Bran with Ground Screenings not exceeding Mill Run.
Wheat Flour Middlings with Ground Screenings not exceeding Mill Run.
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Wash-Co Alfalfa Milling Co., Fort Calhoun, Neb.

Alfalcream.
Alfalgreen.
Famous Horse Feed.
Harvest King.
Nebraska.
Pride of the West.
Strong Horse Feed.
Wash-Co Horse Feed.
Wash-Co Special.

Watkins Med. Co., The, J. R., Winona, Minn.

Watkin's Poultry Tonic.
Watkin's Stock Tonic.

Weiss Alfalfa Stock Food Co., The Otto, Wichita, Kans.

Otto Weiss Alfalfa Meal.
Otto Weiss Dairy Feed.
Otto Weiss Horse & Mule Feed.
Otto Weiss Kempemfat.
Otto Weiss Stock Feed.
Otto Weiss Sweet Feed No. 1.

Wellington Flour Mills Co., Wellington, Ohio.

Rye Middlings.
Wellington Red Ball Hominy.
Wheat Bran with Ground Screenings not to exceed Mill Run.
Wheat Middlings with Ground Screenings not to exceed Mill Run.
Wheat Mixed Feed with Ground Screenings not to exceed Mill Run.

Wells Flour Milling Co., Wells, Minn.

Feedwell Bran with Ground Screenings not exceeding Mill Run.
Feedwell Flour Middlings.
Feedwell Germ Middlings.
Feedwell Low Grade Flour.
Feedwell Standard Middlings.

Wells-Abbott-Nieman Co., Schuyler, Neb.

Puritan Bran.
Puritan Middlings.

Weltin, M., Quincy, Ill.

M. Welton's Choice Middlings.
M. Welton's Choice Soft Wheat Shorts.
M. Welton's Winter Bran.

Wentz, A. F., Jersey Shore, Pa.

Buckwheat Middlings.
Corn and Oats Chop.
Little Chick Feed.
Pure Wheat Bran.
Pure Wheat Middlings.
Scratch Grains.

Wertz & Son, F. S., Reading, Pa.

Berkshire Dairy Feed.
Faramel Dairy Feed.
Faramel Horse Feed.
Liberty Standard Laying Mash.
Our Own Alfalfa Horse Feed.

Western Flour Mills Co., Davenport, Iowa.

Black Hawk Bran with Ground Screenings not exceeding Mill Run.
 Black Hawk Standard Middlings.
 Black Hawk Wheat Flour Middlings.
 Black Hawk Wheat Germ Midds.
 Black Hawk Wheat Low Grade.
 Black Hawk Wheat Second Clear.

Western Grains & Feed Co., Chicago, Ill.

Brewers' Dried Grains.

Western Grain Products Co., Hammond, Ind.

Alfalfa Meal.
 Calumet Alfalfa Horse Feed.
 Calumet Dairy Feed.
 Calumet Scratch Feed, no Grit.
 Calumet Scratch Feed, with Grit.
 Hammond Dairy Feed.

Wichita Alfalfa Stock Food Co., Wichita, Kans.

Alfalfa Meal.

Wichita Flour Mills Co., Wichita, Kans.

Standard Wheat Shorts.
 Wheat Bran and Screenings.
 Wheat Mix Feed and Screenings.

Wilbur Stock Food Co., Milwaukee, Wis.

Wilbur's Hog Tonic.
 Wilbur's Poultry Tonic.
 Wilbur's Stock Tonic.

Wilkes-Barre Milling Co., Wilkes-Barre, Pa.

Blue Ribbon Scratch Feed, no Grit.
 Blue Ribbon Scratch Feed, with Grit.
 Blue Ribbon Stock Feed.
 Mixed Chop.

Williams Brothers Co., The, Kent, Ohio.

Kent Mixed Feed.
 Pure Ohio Wheat Bran.
 Pure Winter Wheat Middlings.

Williams, Frank, Easton, Pa.

Dandy Horse Feed.
 Diamond Chick Food.
 Diamond Mash Feed.
 Diamond Beef Scrap.
 Diamond Scratch Feed.
 Special Horse Feed.
 Star Scratch Feed.
 Tip Top Horse Feed.
 Wheat Bran.
 Wheat Middlings.

Wilson, John C., Philadelphia, Pa.

Wilson's Alfalfa Molasses Horse Feed.

Wilson Brothers, Buffalo, N. Y.

Alfalfa Meal.
 Brewers Dried Grains.
 Distillers Grains.
 Flour Middlings.
 Malt Sprouts.
 Mixed Feed.
 Oat Feed.
 Red Dog Flour.
 Spring Wheat Bran.
 Standard Middlings.
 Winter Wheat Bran.

Woodward & Co., Philadelphia, Pa.

U. T. Feed.

Woodworth & Co., E. S., Minneapolis, Minn.

Flour Middlings.
 Snow's Cream Flour Middlings.

Woolworth, E. J., Gibbon, Neb.
Pure Alfalfa Meal.

Wright Milling Co., Berlin, Wis.
Pure Rye Feed.

Wycoff, J. M., East Stroudsburg, Pa.
Dairy Feed.
Mixed Feed.
Poultry Mash.
Scratch Grain.

Yates & Donelson Co., Memphis, Tenn.
Corn Bran.
Hominy Feed Meal.

Yerxa, Andrews & Thurston, Inc., Minneapolis, Minn.
Golden Durum Wheat Flour Middlings.
Nokomos Durum Wheat Bran.

Young's Stock Food Co., Dr. T. D., Roaring Springs, Pa.
Dr. Young's Animal Regulator.
Dr. Young's Anti-Aboration Food.
Dr. Young's Hog Food.
Dr. Young's Horse Food.
Dr. Young's Poultry Food.

Zenith Milling Co., Kansas City, Mo.
Wheat Bran and Screenings not exceeding Mill Run.

ANALYSES OF SPECIAL SAMPLES OF FEEDING STUFFS RECEIVED FROM MANUFACTURERS AND PURCHASERS LOCATED IN PENNSYLVANIA.

Under the provisions of the law there were 305 special samples of feeding stuffs received from residents of the State and analyzed during the year for a fee of one dollar (\$1.00), which is required to be charged. Reports of the results received were submitted to the senders together with such other information regarding labeling, registering and rearrangement of formulas made necessary in answering inquiries and the fees were paid to the State Treasurer as required. The samples consisted for the most part of feeds suspected of not meeting the guarantees claimed, and prepared mixtures for the purposes of arriving at proper guarantees to be used in registering and in showing guarantees upon sacks or attached cards. As these results were in the nature of private information tabulated results of analyses are not included in this report.

DIRECTION FOR ANALYSIS OF SPECIAL SAMPLES.

Residents of Pennsylvania who manufacture, sell, purchase or make use of feeding stuffs may have samples analyzed by the Bureau for a fee of one dollar (\$1.00), determinations being made for protein, fat and fiber. In cases where the presence of adulterants is suspected examination for foreign materials will be made. Those who desire to have this work done, in submitting samples for analysis should proceed as follows:

Amount of Sample: A sample containing about one-half pound of feed should be submitted for analysis. It should be carefully secured from several sacks, or if in bulk from several different places in the bin, placed on a clean oil-cloth or paper thoroughly mixed and subdivided by halving and quartering until the desired amount is obtained. The sample should then be placed in a bottle, carton or large mailing envelope usually used for such purposes and plainly marked for transportation showing the name of sender and name or number of the feed. When two or more samples are submitted, espe-

cially if they are similar in composition and appearance, they should be marked so that they can be properly listed and identified and in such a manner as to avoid any chance of error.

Charge for Analysis: A fee of one dollar (\$1.00) is charged for each sample analyzed, determinations being made for protein, fat and fiber, and should be sent, with a letter requesting the analysis to be made, in the form of check, money order or cash.

Address: Both samples and letters enclosing fees should be addressed and forwarded to the Bureau of Chemistry, Pennsylvania Department of Agriculture, Box 108, Harrisburg, Pa.

OFFICIAL SAMPLES OF FEEDING STUFFS OBTAINED BY SPECIAL AGENTS.

During the year covered by this report the special agents of the Bureau obtained for analysis and examination 1,060 official samples of feeding stuffs. They were obtained from selling agents throughout the State and with the exception of 86 samples were sampled from shipments or stock on hand showing guaranteed analysis as required. In addition to the selection of samples the agents inspected the methods of labeling and guaranteeing and general conditions prevailing and submitted reports covering this work and for each sample obtained. Each sample was analyzed for moisture, protein, fat and fiber, and examined microscopically for the presence of prohibited materials or adulterants. The results thus obtained have been classified and tabulated in the large table and the following data also includes tables showing the classification of samples analyzed and summary of deficiencies, average analyses and retail selling prices and a discussion of the analytical results under each head according to the classification of each kind of feeding stuffs.

The special agents during the inspection work visited 252 towns and cities in 48 counties, and the number of samples secured in each county were as follows:

Allegheny, 46; Armstrong, 21; Beaver, 26; Bedford, 11; Berks, 8; Blair, 33; Bradford, 45; Butler, 35; Cambria, 21;; Cameron, 6; Carbon, 14, Centre, 26; Clearfield, 31; Clinton, 10; Crawford, 4; Cumberland, 27; Dauphin, 43; Elk, 9; Erie, 22; Fayette, 15; Franklin, 23; Huntingdon, 12; Indiana, 13; Jefferson, 23; Juniata, 2; Lancaster, 8; Lawrence, 20; Lebanon, 34; Luzerne, 43; Lycoming, 8; Mc-

Kean, 23; Mercer, 21; Mifflin, 12; Montour, 15; Northumberland, 48; Perry, 8; Philadelphia, 90; Potter, 8; Schuylkill, 5; Snyder, 8; Somerset, 26; Union, 14; Venango, 25; Warren, 10; Washington, 58; Westmoreland, 50.

GUARANTEES AND DEFICIENCIES.

In estimating the samples found deficient in protein and fat only those where the protein was 1.00 per cent. or more and the fat 0.5 per cent. or more, below their respective guarantees were considered as being deficient samples. Of the total number of samples obtained for analysis from the various selling agents throughout the state, 974 were selected from shipments or stock on hand of feeding stuffs which were found being offered for sale having printed on the sacks or on attached cards the guaranteed analyses as required. Of this number 6 or $\frac{1}{2}$ of 1.00 per cent. of the samples were found to be deficient in both protein or fat, 25 or 2.36 per cent. deficient in protein alone and 94 or 8.9 per cent. deficient in fat alone. The total number of deficiencies in protein was 31 or 2.9 per cent. and 1.00 or 9.4 per cent. were deficient in fat. These deficiencies showed a small decrease in number compared with those noted for the feeding stuffs included in the 1918 report. There were a large number of overages, as will be noted by referring to the table showing the results of analyses of each sample, compared with previous years inspection work. A decrease in the number of brands having both minimum and maximum guarantees was observed. Of the 718 samples classified as Proprietary and Miscellaneous Mixed Feeds there were 259 or 36 per cent. of them where variations in the lists of ingredients, compared with the claimed composition, were found to occur. These variations consisted for the most part of the absence of one or more claimed ingredient, the substitution of one product for another, the presence of small amounts of whole weed seeds and 5 samples contained small amounts of rice hulls and in 3 peanut hulls were found present. Of those mixed feeds where such by-products as oat hulls, clipped oat by-product, oat meal mill by-product, cottonseed hulls and flax plant refuse were used as ingredients and where the crude fiber is restricted to 10.00 per cent. there were 139 or 19 per cent. of the samples found upon analysis to materially exceed the amount containing from 1.00 to 12.00 per cent. excess fiber. These deficiencies, variations from the certified compositions and excessive fiber contents, indicate that

there is much room for improvement in stating the correct guarantees and list of ingredients and reducing the amount of fibrous material used in their preparation. The following table (No. 1) shows the classification of the samples received and analyzed, the number of samples of each class, the number found properly guaranteed, the number deficient in both protein and fat, in protein alone and in fat alone.

TABLE I.—CLASSIFICATION OF SAMPLES ANALYZED AND SUMMARY OF DEFICIENCIES.

Name of Feeding Stuffs.	Number of samples analyzed.	Number of samples guaranteed.	Deficient in protein and fat.	Deficient in protein alone.	Deficient in fat alone.
Cottonseed meal, -----	6	6			
Cottonseed feeds, -----	66	65		3	1
Linseed oil meal, O. P., -----	31	31			
Cocoanut oil meal, -----	3	3			
Distillers' dried grains (largely from corn), -----	1	1			
Distillers' and yeast dried grains, -----	5	5			1
Brewers' dried grains, -----	5	5		4	
Corn gluten feed, -----	12	12			1
Hominy feed, -----	5	5			
Corn bran, -----	1	1			
Corn feed meal, -----	2	2			
Low grade flour (wheat), -----	5	5			2
Wheat middlings, -----	27	14			2
Wheat middlings with admixtures, -----	28	28			1
Mixed feed; wheat by-products, -----	11	9			
Wheat bran, -----	31	18			
Wheat bran with admixtures, -----	31	31			1
Low grade flour (rye), -----	1	1			
Rye middlings, -----	1	1			
Rye middlings with admixtures, -----	2	2			
Mixed feed; rye by-products, -----	4	3			
Wheat and rye offals, -----	3	3			
Oat feed, -----	1	1			
Oat hulls, -----	1	1			
Barley feed, -----	10	10			
Buckwheat middlings, -----	3				
Buckwheat feed, -----	1	1			
Alfalfa meal, -----	3	3			
Dried beet pulp, -----	6	6			
Proprietary dairy feeds, -----	91	90	1	2	20
Proprietary dairy feeds with molasses, -----	91	91	1	8	15
Proprietary stock, horse and mule feeds, -----	104	101			20
Proprietary stock, horse and mule feed with molasses, -----	147	141		2	5
Proprietary calf meals, -----	10	10	1		2
Proprietary swine feeds, -----	44	43	2	1	5
Proprietary chop feeds, -----	21	21			5
Miscellaneous chop feeds, -----	26	5			
Miscellaneous feeds, -----	9	2			
Proprietary poultry feeds:					
Whole grain scratch feeds, -----	121	114			8
Mash feeds, -----	54	50		1	
Animal by-products:					
Meat and bone scrap, -----	26	19		1	1
Tankage, -----	13	11	1	3	3
Poultry bone, -----	3	3			2
Total, -----	1,060	974	6	25	94

AVERAGE ANALYSES AND RETAIL PRICES.

The results of analyses and the retail selling prices for each group or class of feeding stuffs, as shown in the classification of samples in the foregoing table for the purpose of comparison, were averaged and these average results and values were tabulated and will be found in the following table (No. 11). The average selling prices cannot be claimed to fairly represent the several classes of feeding stuffs sold in the State during the year especially in those cases where only a few samples of one kind, class or brand were received. However, they will be of interest in comparing the values of the several classes of Feeds and these selling prices were, as a rule, in excess of those prevailing for the samples representing the brands included in the report for 1918. In the paragraphs included in the Discussion of Analytical Results reference is made to the average prices for the samples received during the year and the 1918 average values. A study of the following table, therefore, will show no material change in the average composition of the several classes of feeding stuffs and by comparing the average values with those included in previous feeding stuffs report the cases where an increase in values has occurred will be observed.

TABLE II.—AVERAGE ANALYSIS AND RETAIL PRICES.

Name of Feeding Stuffs.	Number of samples analyzed.	Protein.	Fat.	Fiber.	Price per ton.
		%	%	%	\$
Cottonseed meal, -----	6	41.70	7.21	11.05	72 20
Cottonseed feeds, -----	66	37.22	6.44	13.28	71 38
Linseed oil meal, O. P., -----	31	37.25	6.55	7.34	75 29
Cocoanut oil meal, -----	3	22.27	10.89	8.01	59 40
Distillers' dried grains (largely from corn), -----	1	31.38	10.80	10.12	63 00
Distillers' and yeast dried grains, -----	5	18.44	6.72	19.97	56 00
Brewers' dried grains, -----	5	22.20	6.63	15.99	58 80
Corn gluten feed, -----	12	27.57	2.43	6.82	67 92
Hominy feed, -----	5	11.81	5.95	3.56	69 80
Corn bran, -----	1	11.56	9.87	9.37	54 09
Corn feed meal, -----	2	11.94	6.39	3.46	76 60
Low grade flour (wheat), -----	5	18.13	4.50	2.07	74 60
Wheat middlings, -----	27	18.37	4.90	5.28	62 19
Wheat middlings with admixtures, -----	23	17.81	5.75	7.39	58 57
Mixed feed; wheat by-products, -----	11	18.13	4.97	6.93	59 09
Wheat bran, -----	31	16.51	4.86	9.31	52 55
Wheat bran with admixtures, -----	31	16.82	5.02	9.88	52 10
Low grade flour (rye), -----	1	19.25	3.60	2.80	60 60
Rye middlings, -----	1	17.56	3.83	5.80	56 00
Rye middlings with admixtures, -----	2	18.07	3.59	5.65	58 66
Mixed feed; rye by-products, -----	4	17.63	3.27	4.69	57 80
Wheat and rye offals, -----	3	18.63	4.94	6.94	56 60
Oat feed, -----	1	11.06	2.98	16.52	37 00
Oat hulls, -----	1	6.19	1.98	27.43	-----
Barley feed, -----	10	14.39	2.93	10.89	55 89
Buckwheat middlings, -----	3	30.96	6.97	10.36	54 80
Buckwheat feed, -----	1	14.69	3.45	29.10	45 00
Alfalfa meal, -----	3	15.75	1.73	26.81	50 67
Dried beet pulp, -----	6	9.98	0.78	17.97	56 00
Proprietary dairy feeds, -----	91	23.72	5.02	10.89	69 64
Proprietary dairy feeds with molasses, -----	91	20.19	4.35	11.93	61 91
Proprietary stock, horse and mule feeds, -----	104	12.21	4.09	10.70	62 32
Proprietary stock, horse and mule feeds with molasses, -----	147	11.07	2.43	11.60	60 50
Proprietary calf meals, -----	10	26.84	4.99	5.42	111 40
Proprietary swine feeds, -----	44	19.09	5.46	7.69	74 36
Proprietary chop feeds, -----	21	11.62	3.61	9.41	65 31
Proprietary poultry feeds:					
Whole grain scratch feeds, -----	121	11.59	3.01	2.93	84 80
Mash feeds, -----	54	20.28	4.96	7.46	85 40
Animal by-products:					
Meat and bone scrap, -----	20	49.67	13.83	1.40	112 15
Tankage, -----	13	49.52	10.61	2.95	101 15
Poultry bone, -----	3	27.25	3.13	0.64	88 33

DISCUSSION OF THE ANALYTICAL RESULTS.

OIL CAKE MEALS.

COTTONSEED MEALS.

Analyses on pages 82 and 83.

Only 6 samples of cottonseed meal representing 5 brands were received during the year, 5 of which were guaranteed to contain 38.50 per cent. of protein and 1 being guaranteed 41.00 to 48.00 per cent. protein. These guarantees were found upon analysis to be exceeded and in the case of the sample showing both minimum and maximum guarantees, the higher guarantee was not reached indicating that the use of both minimum and maximum guarantees are misleading. In 4 samples the content of fiber was found to be in excess of 10.00 per cent. the amount permitted for cottonseed meals and to contain excessive amounts of cottonseed hulls. They were found to vary in their composition from 39.63 to 44.25 averaging 41.70 per cent. protein, from 5.70 to 9.40 averaging 7.21 per cent. fat and from 9.25 to 13.50 averaging 11.05 per cent. fiber. The retail selling prices were from \$70 to \$75 averaging \$72.20 a ton showing an increase over the average 1918 selling price of \$64.84 a ton.

COTTONSEED FEEDS.

Analyses on pages 82 to 89.

The products classified as cottonseed feeds found being sold in the State numbered 66 samples one of which was not guaranteed and represented 22 brands the output of 19 companies. They included those brands which in many States are being sold as cottonseed meal and because of the restriction to 10.00 per cent. the amount of fiber permitted in Pennsylvania shipments, were branded and sold as cottonseed feeds and with the exception of 3 brands were registered with the Department. There were 61 samples representing shipments guaranteed to contain 36.00 per cent. of protein, 3 of these showing maximum guarantees of 41.00 per cent., from a shipment guaranteed 35.41 per cent., 1, 20.00 per cent. and 2 samples showed guarantees

of 20.56 per cent. protein. Three samples were found to be deficient in protein and 1 in fat and in the 3 samples showing both minimum and maximum guarantees 2 of them exceeded the higher figure of 41.00 per cent. With a few exceptions, as will be noted the method of labeling showed correct brand names with statements of composition that they were composed of a mixture of cottonseed meal and cottonseed hulls. They were found upon analysis to vary in their composition from 19.88 to 44.06 averaging 37.22 per cent. protein, from 2.85 to 9.08 averaging 6.44 per cent. fat and from 8.75 to 23.97 averaging 13.28 per cent. fiber. It will be noted that in several brands, although registered and sold as cottonseed feeds with low protein and high fiber guarantees, they contained a sufficient amount of protein and a fiber content less than or approximating 10.00 per cent. which would bring them in the class of cottonseed meals. The retail selling prices were from \$50 to \$90 averaging \$71.38 a ton, showing a higher average price than prevailed for this class of feeds examined during last year, which averaged \$60.34 a ton.

LINSEED OIL MEAL.

Analyses on pages 88 to 91.

There were 31 samples of old process linseed oil meal received and analyzed all of which represented guaranteed shipments, including 10 different brands, the output of as many companies. They were guaranteed to contain from 30.00 to 36.00 per cent. protein and showed no deficiencies upon analysis. They varied in their composition from 32.81 to 46.75 averaging 37.25 per cent. protein, from 5.15 to 9.15 averaging 6.55 per cent. fat and from 6.00 to 8.92 averaging 7.34 per cent. fiber. The selling prices were from \$65 to \$100 averaging \$75.29 a ton, showing a considerable increase over the oil meals sold during the previous year, which were found to average \$63.05 a ton.

COCOANUT OIL MEAL.

Analyses on pages 90 to 93.

Three guaranteed samples representing 2 different brands were received and analyzed and classified as cocoanut oil meal, the by-product obtained from the extraction of oil from "copra" or the meats of the cocoanut. They were found upon analysis as claimed no deficiencies being noted and they varied in their composition from 21.00 to 23.13 averaging 22.27 per cent. protein, from 8.40 to 13.93 averaging 10.89 per cent. fat and from 7.70 to 8.35 averaging 8.01 per cent. fiber. The selling prices were from \$58 to \$60 averaging \$59.40 a ton, an increase over the average price of \$55.40 a ton, for the 5 samples received last year.

DISTILLERY AND BREWERY BY-PRODUCTS.

DISTILLERS DRIED GRAINS LARGELY FROM CORN.

Analyses on pages 92 and 93.

Only 1 sample of distillers' dried grains was received during the year, representing a guaranteed shipment, which analyzed 31.38 per cent. protein, 10.80 per cent. fat and 10.12 per cent. fiber, which sold for \$68 a ton. The fact that only 1 sample of this by-product feeding stuffs was selected is an indication of the reduced amount of this feed available owing to the curtailment of the distilling industry.

DISTILLERS AND YEAST DRIED GRAINS.

Analyses on pages 92 and 93.

Five samples of yeast and distillery by-products were obtained for analyses all of which were found to be guaranteed, representing 4 different brands. They varied in their composition accordingly to the proportions of the grains used in the mash for the production of yeast and contained from 16.50 to 21.75 averaging 18.44 per cent. protein, from 5.38 to 8.95 averaging 6.72 per cent. fat and from 16.22 to 23.15 averaging 19.97 per cent. fiber. They sold for from \$31 to \$58 averaging \$50 a ton. The selling prices were only slightly in excess of those prevailing for 1918.

BREWERS DRIED GRAINS.

Analyses on pages 92 to 95.

Brewers dried grains are represented by 5 samples and as many brands, all of which were taken from guaranteed shipments. They showed considerable variation in their composition being guaranteed from 22.25 to 30.00 per cent. protein and analyzing from 21.63 to 23.00 averaging 22.20 per cent. protein, from 6.15 to 7.23 averaging 6.63 per cent. fat and from 15.60 to 16.77 averaging 15.99 per cent. fiber. Four of these samples failed upon analysis to meet the guarantees for protein. They were sold for from \$56 to \$60 and averaged \$58.80 a ton, showing a slight decrease compared with the average price of the samples received last year.

MAIZE BY-PRODUCTS.

CORN GLUTEN FEED.

Analyses on pages 94 and 95.

The by-product from the manufacture of starch, classified as corn gluten feed, included 12 samples from guaranteed shipments and 5 different brands from as many companies. They were found upon analysis to be as represented except 1 sample which was deficient in fat. They varied in their composition containing from 23.13 to 33.88 averaging 27.57 per cent. protein, from 1.35 to 4.23 averaging 2.43 per cent. fat and from 4.85 to 8.10 averaging 6.82 per cent. fiber. The selling prices were higher than the average of \$58.39 a ton for last year, ranging from \$63 to \$75, averaging \$67.92 a ton.

HOMINY FEED.

Analyses on pages 94 to 97.

Five samples of hominy feed were received and examined, including as many different brands, from guaranteed shipments. They were found upon analysis to be as represented, no deficiencies being noted and varied in their composition from 10.56 to 12.56 averaging 11.81 per cent. protein, from 4.65 to 8.08 averaging 5.95 per cent. fat and from 2.75 to 4.40 averaging 3.56 per cent. fiber. The selling prices were from \$64 to \$80 averaging \$69.80 a ton, showing a slight increase over the average prevailing for the previous years' goods.

CORN BRAN.

Analyses on pages 96 and 97.

Only 1 sample of the feeding stuffs classified as corn bran was secured during the year. It was found upon analysis to contain 11.56 per cent. protein, 9.78 per cent. fat and 9.37 per cent. fiber, exceeding the guarantees claimed and sold for \$54 a ton.

CORN FEED MEAL.

Analyses on pages 96 and 97.

Two samples of 2 brands of corn feed meal were obtained and analyzed, which were not to have been registered with the Department as required. They were found upon analysis to meet the guarantees given upon sacks or attached cards and averaged 11.94 per cent. protein, 6.39 per cent. fat and 3.46 per cent. fiber, having an average selling price of \$3.80 a hundred pounds.

WHEAT OFFALS.

LOW GRADE FLOUR.

Analyses on pages 96 and 97.

The by-Product from the milling of wheat classified as low grade flour or Red Dog included 5 samples obtained from shipments showing guaranteed analysis and representing as many brands. One sample was found to be less in fat than claimed. The variations in composition were from 17.31 to 18.88 averaging 18.13 per cent. protein, from 3.13 to 4.95 averaging 4.50 per cent. fat and from 1.10 to 2.90 averaging 2.07 per cent. fiber. The retail selling prices reported were from \$70 to \$80 averaging \$74.60 a ton.

WHEAT MIDLINGS.

Analyses on pages 96 to 101.

The wheat middlings sold during the year showed an increase in the number of brands over that for 1918 as indicated by 27 samples including 26 different brands, being received for analysis as compared with 16 different brands obtained last year. One half or 14 of the samples represented shipments with guaranteed analysis and of these guaranteed 2 were deficient in fat. They were found upon examination to be free from Screenings and as represented. They varied in their composition from 16.44 to 20.63 averaging 18.37 per cent. protein, from 3.20 to 6.40 averaging 4.90 per cent. fat and from 1.90 to 7.87 averaging 5.28 per cent. fiber. This variation in their composition was in part due to the varying proportion of bran and floury portion of the wheat or Red Dog flour which they contain. The selling prices showed a considerable variation and were from \$45 to \$85 and averaged \$62.19 a ton, being in excess of \$57.94 the average price for the 1918 samples.

WHEAT MIDLINGS WITH ADMIXTURES.

Analyses on pages 100 to 105.

The wheat middlings with admixtures representing the wheat offal feeds, labeled for the most part as containing ground grain screenings or the so called "mill run screenings," received and analyzed during the year numbered 28 samples which were obtained from shipments having the guaranteed analysis as required, including 21 brands the output of 19 companies. They were found upon examination to not include excessive amounts of ground grain screenings, al-

though they showed considerable variation in their chemical composition. They analyzed from 15.19 to 21.19 averaging 17.81 per cent. protein, from 4.68 to 8.63 averaging 5.75 per cent. fat and from 4.97 to 9.45 averaging 7.39 per cent. fibre. The selling prices also showed wide ranges being from \$45 to \$70 averaging \$58.57 a ton showing an increase over the average of \$56 a ton for last year.

MIXED FEED :—WHEAT BY-PRODUCTS.

Analyses on pages 104 to 107.

There were 11 samples of wheat mixed feed, the by-product from the milling of wheat, consisting of wheat bran and shorts or middlings, representing 10 different brands received and analyzed during the year. Two samples were found not to be labeled with the guaranteed analysis and of those guaranteed no deficiencies were noted upon analysis. They showed variations of from 12.63 to 19.88 averaging 18.13 per cent. protein, from 3.68 to 5.90 averaging 4.97 per cent. fat and from 1.97 to 8.27 averaging 6.93 per cent. fibre. As will be noted a wide variation occurred in their chemical composition which was largely caused by the varying proportion of bran and middlings making up the mixture. The retail selling prices were from \$50 to \$85 averaging \$59.09 a ton, being considerably in excess of the average ton price of \$44.20 noted for 5 samples analyzed last year.

WHEAT BRAN.

Analyses on pages 106 to 111.

An increased amount of wheat bran was sold in Pennsylvania during the year as 31 samples, including 28 brands were received for analysis, or nearly 4 times as many samples and brands as were received in 1918. Eighteen of these samples were obtained from guaranteed shipments and of those guaranteed no deficiencies were found upon analysis. They were all labeled as pure wheat bran and in 7 samples a small amount of ground grain screenings were found present, showing that these should have been branded to show the presence of screenings. They varied in their composition from 14.25 to 19.56 averaging 16.51 per cent. protein, from 4.03 to 6.03 averaging 4.80 per cent. fat and from 7.37 to 10.85 averaging 9.31 per cent. fiber. The retail selling prices showed an increase compared with the average price of \$45.50 a ton for the samples obtained during 1918 and were from \$46 to \$65 averaging \$52.55 a ton.

WHEAT BRAN WITH ADMIXTURES.

Analyses on pages 110 to 115.

The feeding stuffs classified as wheat bran with admixtures including for the most part those shipments guaranteed to contain the so called mill run of ground grain screenings and numbered 31 samples

all of which were found labeled with the guaranteed analysis, representing 28 different brands, the output of 26 companies. They were found upon analysis, with the exception of 1 sample deficient in fat, to meet their guarantees especially in the case of protein where large proportions of overages occurred. They varied in composition from 14.50 to 20.63 averaging 16.82 per cent. protein, from 4.23 to 6.23 averaging 5.02 per cent. fat and from 8.40 to 13.50 averaging 9.88 per cent. fiber. The selling prices showed a wide range of from \$43 to \$60 averaging \$52.10 a ton, being in excess of the average price of \$45.20 a ton for the 15 brands of this class of feeds examined in 1918.

RYE OFFALS.

LOW GRADE FLOUR.

Analyses on pages 114 and 115.

One sample of rye Red Dog or low grade flour was received analyzing 19.25 per cent. protein, 3.60 per cent. fat and 2.80 per cent. fiber which was obtained from a shipment properly guaranteed and which sold for \$60 a ton.

RYE MIDDINGS.

Analyses on pages 114 and 115.

Only one sample of this class of rye offals was obtained from a guaranteed shipment which was found upon analysis to contain 17.56 per cent. protein, being in excess of the guarantee claimed, 3.83 per cent. fat, slightly less than claimed and 5.80 per cent. fiber. The selling price reported was \$56 a ton.

RYE MIDDINGS WITH ADMIXTURES.

Analyses on pages 114 and 115.

The 2 samples of rye middlings with ground grain screenings not exceeding mill run received was found to be properly labeled and guaranteed. Upon analysis they averaged 18.07 per cent. of protein, 3.59 per cent. fat and 5.65 per cent. fiber and had an average selling price of \$2.93 a hundred pounds.

MIXED FEED:—RYE BY-PRODUCTS.

Analyses on pages 114 to 117.

Rye mixed feed, the product consisting of rye bran and rye middlings received during the year numbered 4 samples, 1 of which represented a shipment not guaranteed, including 4 different brands the output of as many companies. They contained upon analysis from 16.75 to 18.13 averaging 17.63 per cent. protein, from 2.80 to 3.50 averaging 3.27 per cent. fat and from 3.50 to 5.85 averaging 4.69 per cent fiber. The selling prices were from \$2.50 to \$3.25 averaging \$2.89 a hundred pounds.

WHEAT AND RYE OFFALS.

Analyses on pages 116 and 117.

There were 3 samples of wheat and rye offals received during the year. Two brands and 2 samples were composed of wheat bran, wheat middlings, rye shorts and mill run ground grain screenings, being found as claimed and to meet their guarantees. The remaining brand which was sold as mixed wheat and rye white middlings with ground screenings not exceeding mill run, was found to contain corn meal. These 3 samples varied in their analysis from 17.13 to 20.31 averaging 18.63 per cent. protein, from 4.68 to 5.20 averaging 4.94 per cent. fat and from 4.95 to 8.27 averaging 6.94 per cent. fiber. The selling prices were from \$2.50 to \$3.00 averaging \$2.83 per hundred pound or at the rate of \$56.60 a ton.

OAT BY-PRODUCTS.

Analyses on pages 116 and 117.

The oat by-product feeding stuffs included 1 sample sold as oat feed which analyzed 11.06 per cent. protein, 2.98 per cent. fat and 16.52 per cent. fiber, selling for \$37 a ton and 1 sample of oat hulls containing 6.19 per cent. protein, 1.98 per cent. fat and 27.43 per cent. fiber no price being reported. Both of the samples were obtained from guaranteed shipments no deficiencies being found.

 BARLEY OFFALS.

 BARLEY FEED.

Analyses on pages 116 to 119.

The by-product obtained from the milling of barley, which has continued to be sold in the State and classified as barley feed, included 10 samples from shipments found to be properly labeled, included 7 different brands 1 being a sample of barley screenings. They

were composed of barley hulls, bran and middlings with a small proportion of ground screenings, being the offal from the milling of barley for barley flour. The barley screenings, which was not included in estimating the average composition of these feeds, analyzed 8.13 per cent. protein, 2.18 per cent. fat and 21.72 per cent. fiber and sold for \$20 a ton. The barley feeds varied in their composition from 12.75 to 16.13 averaging 14.39 per cent. protein, from 2.60 to 3.28 averaging 2.93 per cent. fat and from 8.25 to 13.72 averaging 10.89 per cent. fiber. The selling prices were from \$52 to \$60 averaging \$55.89 a ton, showing an increase over the average price of \$47.54 for this class of feeds sold in 1918.

BUCKWHEAT OFFALS.

BUCKWHEAT MIDDINGS.

Analyses on pages 118 and 119.

The 3 samples of buckwheat middlings received were found upon analysis to contain from 29.38 to 31.81 averaging 30.96 per cent. protein from 6.73 to 7.45 averaging 6.97 per cent. fat and from 4.95 to 15.90 averaging 10.36 per cent. fiber. The selling prices were from \$2 to \$3.20 averaging \$2.74 a hundred pounds or at the rate of \$54.80 a ton, which was considerably less than last year's price. The guaranteed analyses were not shown in the shipments from which these samples were obtained as pure buckwheat middlings are not required to be guaranteed.

BUCKWHEAT FEED.

Analyses on pages 118 and 119.

One sample of buckwheat feed was secured from a shipment labeled with the guaranteed analysis which was found to contain 14.69 per cent. protein, 3.45 per cent. fat, 29.10 per cent. fiber and which sold for \$2.25 a hundred pounds. It consisted of buckwheat bran and middlings with a large proportion of buckwheat hulls, the guarantees being exceeded upon analysis.

ALFALFA MEALS.

Analyses on pages 118 to 121.

Alfalfa meal, as only 3 samples were obtained for analysis, was not being sold in great quantities in the State during the year. The samples received represented 3 different brands all of which were correctly labeled and guaranteed. They varied in their composition

from 14.44 to 17.19 averaging 15.75 per cent. protein, from 1.55 to 1.88 averaging 1.73 per cent. fat and from 26.40 to 27.55 averaging 26.81 per cent. fiber. The selling prices were from \$48 to \$56 and averaged \$50.67 a ton, showing a decrease compared with the average price of \$52.60 for the 5 samples received during 1918.

DRIED BEET PULP.

Analyses on pages 120 and 121.

The dried residue from the extraction of sugar beets sold for feeding purposes, was represented by 6 samples and 2 brands which were found to be fairly constant in their composition. They varied in analysis from 9.06 to 11.00 averaging 9.98 per cent. protein, from 0.60 to 1.00 averaging 0.78 per cent. fat and from 16.77 to 18.85 averaging 17.97 per cent. fiber. The selling prices increased over the average of the shipments sampled in 1918 of \$54.83 a ton, ranging from \$2.65 to \$2.90 averaging \$2.80 a hundred pounds or at the rate of \$56 a ton.

MIXED FEEDS—PROPRIETARY AND MISCELLANEOUS.

The feeding stuffs received and analyzed during the year and classified as proprietary and miscellaneous mixed feeds, included 718 samples, or two-thirds of the total number obtained by the Special Agents representing the various classes of the mixed feeds being sold in the State. In order that the analysis and composition of the various grades might be better compared they were divided into 10 subdivisions. These grades, together with a number of samples in each, were as follows: Proprietary Dairy Feeds, 91; Proprietary Dairy Feeds with Molasses, 91; Proprietary Stock, Horse and Mule Feeds, 104; Proprietary Stock, Horse and Mule Feeds with Molasses, 147; Proprietary Calf Meals, 10; Proprietary Swine Feeds, 44; Proprietary Chop Feeds, 21; Miscellaneous Chop Feeds, 26; Miscellaneous Feeds, 9 and Proprietary Poultry Foods, All Grain Scratch Feeds, 121 and Mash Feeds, 54. Of the total number of these feeds 56 samples were obtained from shipments which were not labeled with the guaranteed analysis, however the majority of these samples included whole grain poultry foods and chop feeds where the guaranteed analysis and composition is not required. Of the number guaranteed 5 were found deficient in both protein and fat, 14 in protein alone and 80 were deficient in fat alone. The guarantees, as a rule, were exceeded and the deficiencies noted were of about the same

number as those prevailing for this class of feeds examined during 1918. There were 22 samples where the composition, or list of ingredients, was not shown upon sacks or attached cards although the majority of these cases were feeds composed of whole grains where the composition is not required to be given. There were, however, a large proportion of the samples, where the compositions were printed upon sacks or attached cards, which were found upon examination to vary in their composition from the ingredients claimed as 259 samples or 36 per cent. of the mixed feeds received showed incorrect statements of composition. This number of variations in compositions were over three times as great as noted in this class of feeds received during last year. There were 84 samples, the larger number of which were of the Dairy Feeds with Molasses and Scratch Feeds, which were found to contain small amounts of whole weed seeds and 8 samples of the Whole Grain Scratch Feeds contained large amounts of whole weed seeds. Five of the samples contained rice hulls, 3 peanut hulls and 3 samples of Stock, Horse and Mule Feeds with Molasses were damaged and mouldy and in bad condition. The fact that more than one-third of the samples subjected to a microscopical examination failed to be properly labeled for ingredients indicates that there is much room for improvement in showing the correct names of ingredients of which this class of feeds are composed. There were also 139 samples, most of which included the Dairy Feeds and Stock, Horse and Mule Feeds with and without Molasses, which contained oat hulls and flax plant refuse, wherein the content of crude fiber was found to materially exceed 10 per cent., the amount permitted, of from 1 to 12 per cent. more than the law allows. There were 78 samples representing different brands which were not registered with the Department during the year, showing a further matter for care on the part of the manufacturers in cooperating with the Department by complying with this provision of the law.

PROPRIETARY DAIRY FEEDS.

Analyses on pages 120 to 149.

The feeding stuffs received and analyzed and classified as Proprietary Dairy Feeds were those mixed feeds of the more concentrated type not containing molasses and included 91 samples and 40 different brands, the output of 31 companies. They were guaranteed to contain from 16.00 to 30.00 per cent. of protein, the majority containing the higher amounts, as the shipments included 17 samples being guaranteed 20 per cent., 20 samples 21.00 per cent. and 27 samples 24.00 per cent. protein. There were 2 samples with 25.00 per cent., 7 with 26.00 per cent. and 1 with 30.00 per cent. protein guarantees. Of the total number of this class all but 1 were secured from shipments showing guaranteed analysis, and list of ingredients and upon

analysis 1 was found to be deficient in both protein and fat, 2 in protein alone and 20 in fat alone. There were 28 samples wherein the compositions, upon microscopical examination, were found to vary from the lists of ingredients claimed, by the absence or addition of certain feed materials. Two samples contained small amounts of whole weed seeds and 1 contained a small amount of rice hulls. In those samples containing oat hulls or flax plant refuse, or both of these materials, either as claimed or found present upon examination, there were 16 in which the content of crude fiber exceeded 10 per cent., the amount permitted, of from 1 to 7 per cent. in excess of the requirements. There were 6 samples representing brands not registered with the Department, as required. There was, however, an improvement in the method of guaranteeing the analyses as the larger proportion showed overages and as there were only 2 cases where both minimum and maximum guarantees were shown. This class of mixed feeds contained from 16.50 to 29.37 averaging 23.72 per cent. protein, from 2.60 to 8.20 averaging 5.02 per cent. fat and from 6.82 to 17.80 averaging 10.89 per cent. fiber. The selling prices ranged from \$55 to \$85 averaging \$69.64 a ton, showing an increase over these feeds included in the 1918 report, which averaged \$62.91 a ton.

PROPRIETARY DAIRY FEEDS WITH MOLASSES.

Analyses on pages 148 to 173.

The mixed feeds of the higher protein type containing molasses as an ingredient and included in this group numbered 91 samples, representing 41 different brands, the output of 26 companies. They all represented shipments showing guaranteed analyses and with one exception the statements of composition. Eight brands were not registered as required. Upon analysis 1 sample was found deficient in protein, and fat, 8 deficient in protein alone and 15 in fat alone. Upon microscopical examination 57 or more than one-half of the samples of this class were found to vary in their composition from that claimed upon sacks or attached cards. There were 31 in which small amounts of whole weed seeds were found and 1 contained rice hulls. Of these samples labeled to include, or found upon examination to include oat hulls or flax plant refuse, 40 exceeded by from 1.00 to 9.50 per cent., the amount of crude fiber of 10 per cent. permitted in feeds containing these by-products. They were guaranteed to contain from 13.50 to 25.00 per cent. of protein, 17 showing guarantees of 16.00 per cent., 20 of 16.50 per cent., 6 of 17.50 per cent., 18 of 20.00 per cent. and 19 of 24.00 per cent. This group of feeds were found to contain, upon analysis, from 11.27 to 29.69 averaging 20.19 per cent. protein, from 2.23 to 7.11 averaging 4.35 per cent. fat and from 7.51 to 19.63 averaging 11.93 per cent. fiber. The selling

prices were from \$46 to \$85 averaging \$61.91 a ton. The average selling price for this class of feeds received during 1918 was \$54.74 a ton.

PROPRIETARY STOCK, HORSE AND MULE FEEDS.

Analyses on pages 172 to 197.

The mixed feeds received for analysis which, as indicated by their brand name and composition, were intended largely for stock, horse and mule feeding, and not containing molasses as an ingredient, were placed in this class and numbered 104 samples, 3 of which were obtained from shipments not labeled with the guaranteed analysis and 1 sample was from a shipment not having the composition shown. They included 46 brands, the output of 36 companies, and were of the less concentrated type in their protein content than were the Proprietary Dairy Feeds, being guaranteed from 7.00 to 14.00 per cent. of protein. Nearly all of the samples were guaranteed to contain 9.00, 10.00, 11.00 and 12.00 per cent. protein and in 3 samples both minimum and maximum guarantees were shown. Twenty samples were found, upon analysis, to be deficient in fat, however, the majority exceeded the guarantees as will be noted. There were 37 samples where the list of ingredients found upon examination failed to correspond with the composition claimed. There were 3 samples in which small amounts of whole weed seed were found present, 1 contained a small amount of rice hulls, and there were 50 samples or one-half of the number which contained either oat hulls, cottonseed hulls, or flax plant refuse, where the fiber materially exceeded the amount of 10.00 per cent. permitted, running as high as 10 per cent. over the restricted amount. There were 7 samples representing brands not registered during the year. They varied in their composition from 8.25 to 21.13 averaging 12.21 per cent. protein, from 1.20 to 7.80 averaging 4.09 per cent. fat and from 2.45 to 20.49 averaging 10.70 per cent. fiber. The retail selling prices were from \$39 to \$78 averaging \$62.32 a ton. The average retail price for this group of feeds received during last year was \$60.79 a ton.

PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MOLASSES.

Analyses on pages 196 to 217.

The mixed feeds intended for stock, horse and mule feeding including molasses as an ingredient, numbered 147 samples, 6 of which were from shipments not showing the guaranteed analyses, representing 92 different brands, the output of 49 firms. There were 2 samples from shipments where the compositions were not shown as required and 11 were not registered. In this group of feeds, also, the guarantees were for the most part exceeded upon analysis, there being only 2 samples found deficient in protein and 5 in fat. Twenty-five were found upon examination to vary in their composition from the

ingredients claimed. Three were found moldy and damaged and 7 contained small amounts of whole weed seeds. They were guaranteed to contain from 5.00 to 14.00 per cent. of protein and nearly all or 49 samples showed guarantees for 9.00 per cent. protein and 66 samples had 10.00 per cent. protein guarantees. They varied in their analysis from 8.04 to 18.87 averaging 11.07 per cent. protein, from 0.63 to 5.28 averaging 2.43 per cent. fat and from 1.97 to 20.06 averaging 11.60 per cent. fiber. There were 25 samples containing oat hulls, cottonseed hulls, or flax plant refuse where the content of fiber was found to exceed 10.00 per cent. the amount permitted where these by-products are used, running as high as 20.00 per cent. total fiber showing an excessive amount of this class of by-product materials. The selling prices were from \$41 to \$78 averaging \$60.50 a ton, showing a decrease in the selling price of this class of feeds for last year which averaged \$63.51 a ton.

PROPRIETARY CALF MEALS.

Analyses on pages 216 to 219.

The mixed feeds received and analyzed and branded to show that they were intended for calf feeding, numbered 10 samples, all of which were obtained from shipments properly guaranteed and labeled, included 6 different brands registered with the Department. These feeds were high in protein being of the concentrated type, and were guaranteed to contain from 18.00 to 33.00 per cent. protein, 6 being guaranteed 25.00 per cent protein. One sample was found deficient in both protein and fat and 2 in fat alone, and there were 4 samples where the composition was found upon examination to vary from the claimed list of ingredients. They were found upon analysis to contain from 17.56 to 35.19 averaging 26.84 per cent. protein, from 2.80 to 6.63 averaging 4.99 per cent. fat and from 2.72 to 7.70 averaging 5.42 per cent. fiber. The selling prices for this group of mixed feeds were in excess of those charged for any of the other classes of mixed feeds, and ranged from \$97 to \$120 averaging \$111.40 a ton. The average selling price of the calf meals examined during 1918 was \$96.20 a ton showing an increase for this year's feeds.

PROPRIETARY SWINE FEEDS.

Analyses on pages 220 to 229.

There were 44 samples obtained by the Special Agents representing the mixed feeds sold for swine feeding which, with 1 exception, were obtained from shipments showing guaranteed analyses and compositions. They included 20 different brands, the output of 19 manufacturing companies. Three brands were not registered, as required. They were guaranteed to contain from 12.00 to 25.00 per cent. of

protein, 8 showing 14.00 per cent., 9, 15.00 per cent. and 3, 21.00 per cent. protein guarantees. Upon analysis 2 were found to be deficient in both protein and fat, 1 in protein alone and 5 in fat alone and there were 14 samples where it was found the lists of ingredients were not in agreement with the composition claimed. There were 2 samples which contained rice hulls, 1 a small amount of whole weed seeds and 1 in which the fiber exceeded the amount permitted. They were found to contain upon analysis from 12.20 to 28.00 per cent. averaging 19.09 per cent. protein, from 2.29 to 13.98 averaging 5.46 per cent. fat and from 3.72 to 12.99 averaging 7.69 per cent. fiber. There were wide variations in the selling prices which exceeded those noted for the samples obtained in 1918, which averaged \$69.56 a ton, ranging from \$60 to \$108, with an average of \$74.36 a ton.

PROPRIETARY CHOP FEEDS.

Analyses on pages 228 to 233.

The mixed feeds received and examined having proprietary brand names and which were classified as chop feeds, included 21 samples, all of which were found to be labeled with the guaranteed analysis, representing 8 different brands, the output of 5 companies. These feeds were of the less concentrated type, having guarantees of from 8.00 to 12.00 per cent. of protein, the majority being guaranteed 8.00 and 9.00 per cent. Five samples were, upon analysis, found deficient in fat and they varied from 9.56 to 16.19 averaging 11.62 per cent. protein, from 2.53 to 5.25 averaging 3.61 per cent. fat and from 6.37 to 13.29 averaging 9.41 per cent. fiber. There were 3 samples in which the fiber was found to be materially in excess of the amount permitted and 6 samples where variations in the composition from the ingredients claimed were noted. The selling prices were from \$53.50 to \$81.00, averaging \$65.31 a ton, being slightly in excess of the average of \$63.68 a ton for the samples secured during 1918.

MISCELLANEOUS CHOP FEEDS.

Analyses on pages 234 to 237.

The mixed feeds classified as miscellaneous chop feeds included 26 samples and 24 brands, the output of 20 companies. Only 5 of these samples were secured from shipments showing the guaranteed analyses, however, in the case of the remaining samples, as they were whole grains or mixtures of whole grains, the analysis and list of ingredients were not required. They included 2 samples of corn chops, averaging 11.03 per cent. protein, 4.15 per cent. fat and 2.07 per cent. fiber, and which sold for \$4.15 a hundred pounds; 5 oat chops averaging 12.46 per cent. protein, 4.95 per cent. fat and 9.53 per cent. fiber, averaging \$3.01 a hundred pounds; 2 barley chops averaging 13.04 per cent. protein, 2.26 per cent. fat and 5.16 per cent. fiber, selling

for \$63.00 a ton; 2 rye chops averaging 13.94 per cent. protein, 1.58 per cent. fat and 1.88 per cent. fiber, and selling for \$64.00 a ton; and 7 corn and oat chops having an average composition of 11.74 per cent. protein, 4.38 per cent. fat and 5.06 per cent. fiber and selling for \$3.58 a hundred pounds. The remaining chop feeds included mixtures of whole grains with oat meal mill by-products, wheat screenings and wheat middlings, as will be noted. Of those samples where the composition was given 5 were found upon examination to be incorrectly stated, 1 sample being found to be in a damaged condition and 1 to contain fiber in excess of the amount permitted.

MISCELLANEOUS FEEDS.

Analyses on pages 238 and 239.

The feeding stuffs classified as miscellaneous because of their dissimilarity from the other groups or classes of mixed feeds, included 9 samples, only 2 of which were found to be labeled with the chemical analysis and full statements of composition. They included 2 samples of Branner Refuse, not registered with the Department, as required, which were sold without guaranteed analyses, being composed of rye middlings, ground peanut hulls, cottonseed hulls, and palm oil and which contained twice as much fiber as permitted in mixtures of this character. There was also a sample of graham or whole wheat flour, 1 of semi-solid buttermilk containing 24.86 per cent. protein and 5.78 per cent. fat, selling for \$5.25 per hundred pound, 1 sample of "Hog Bon", a form of grit composed of calcium phosphate, and potassium and calcium carbonates and charcoal; 1 sample of Kaffir Corn; 1 of cottonseed hulls, 2 of cane molasses, having an average composition of 26.54 per cent. moisture, 4.90 per cent. protein and selling for an average of 14 cents a gallon.

PROPRIETARY POULTRY FOODS.

Analyses on pages 238 to 275.

There were 175 samples of poultry foods received and analyzed during the year, including 121 samples classified as Whole Grain Scratch Feeds representing 96 brands, the output of 56 companies and 54 of Mash Feeds representing 35 brands, the output of 32 companies.

The whole grain scratch feeds were composed of whole or cracked grains, 27 samples of which contained varying amounts of grit and charcoal the grit usually present in amounts of from 1 to 6 per cent. There were 7 samples where the guaranteed analyses were not given and 4 where the compositions were not shown, although in those feeds composed entirely of whole or cracked grains, without grit, the analysis and composition were not required. There were 13 samples representing brands not registered. Upon microscopical examina-

tion of those samples where the guaranteed composition was required, 66 were found to be labeled with an incorrect list of ingredients, and 8 were found deficient in fat. There were 39 samples containing small amounts of whole weed seeds and 8 large amounts of whole weed seeds. They were guaranteed to contain from 7.00 to 12.00 per cent. protein, more than half having 10.00 per cent. guarantees. Upon analysis they were found to contain from 9.50 to 16.44 averaging 11.59 per cent. protein, from 1.45 to 4.30 averaging 3.01 per cent. fat and from 1.37 to 4.95 averaging 2.93 per cent. fiber. The selling prices reported were from \$70.00 to \$130.00 averaging \$84.80 a ton, being slightly less than the average of \$87.20 a ton for this class of feeds examined last year.

The poultry mixed feeds classified as mash feeds included 54 samples, all but 4 of which were secured from shipments showing the guaranteed analyses, including 35 different brands, the output of 32 companies. Five of these brands were not registered, as required, and in 1 case the composition was not given. Upon analysis 1 sample was found deficient in protein alone and there were 20 samples where upon microscopical examination the list of ingredients was found to vary from the composition shown upon sacks or attached cards. These feeds were more concentrated in their character than the whole grain scratch feeds, being guaranteed from 9.00 to 25.00 per cent. protein. There were 9 samples showing protein guarantees of 15.00 per cent., 8, 18.00 per cent., 5, 19.00 per cent. and 15, 20.00 per cent. As a rule the guarantees were exceeded and they varied in their composition, as shown by analysis from 13.31 to 27.38, averaging 20.28 per cent. protein, from 2.53 to 7.58, averaging 4.96 per cent. fat and from 2.70 to 11.67 averaging 7.46 per cent. fiber. The selling price was also in excess of the average price of \$75.80 a ton prevailing for the samples selected last year.

As will be noted there is considerable room for improvement in labeling and guaranteeing this class of feeding stuffs, as there were 86 samples or one half of the poultry foods where variations were found to occur.

ANIMAL BY-PRODUCTS.

Analyses on pages 274 to 279.

The samples received and examined during the year classified as Animal By-Products numbered 36, all but 3 of which were obtained from shipments showing guaranteed analysis, as required. They included 27 different brands, all but 4 being registered, the output of 18 companies. These samples included the various grades of meat scrap, tankage and raw or poultry bone found being sold in the State. There were 20 samples of this group of feeding stuffs classified as meat and bone scrap which were guaranteed to contain from 40.00 to 60.00 per cent. of protein and they were found, upon analysis,

to contain from 33.64 to 67.50 averaging 49.67 per cent. protein, from 7.05 to 29.78 averaging 13.83 per cent. fat and the fibrous material ran from 0.75 to 3.00 and averaged 1.40 per cent. One was found to be deficient in protein and 1 in fat, the majority, however, considerably exceeding the guarantees. There were 4 samples of 1 brand guaranteed with minimum and maximum guarantees for protein and in only 1 case was the higher figure exceeded. One of these samples was not guaranteed and analyzed 33.64 per cent. protein, the lowest, as above noted, and 29.78 per cent. fat, the highest in fat content. The selling prices were from \$4.50 to \$7.00 averaging \$5.61 a hundred pounds, or at the rate of \$112.15 a ton. There were 13 samples of tankage including 2 of which were not labeled with the guaranteed analysis, as required. They were guaranteed to contain from 30.00 to 60.00 per cent. of protein and upon analysis 1 was found deficient in both protein and fat and 3 in protein alone, and 3 in fat alone. They varied in their composition from 28.94 to 69.88 averaging 49.52 per cent. protein, from 5.80 to 18.40 averaging 10.61 per cent. fat and contained from 1.80 to 4.85 averaging 2.95 per cent. of fibrous material. The selling prices were from \$3.50 to \$6.50 averaging \$5.06 a hundred pounds or at the rate of \$101.15 a ton.

The 3 remaining samples classified as animal by-products included bone meal, cracked bone, and granulated bone, analyzing 26.13 to 28.38 averaging 27.25 per cent. protein and from 0.33 to 6.30 averaging 3.13 per cent. fat and containing from 0.20 to 1.42 averaging 0.64 per cent. fibrous material. All of these samples were from guaranteed shipments and 2 were found to be deficient in fat compared with their guarantees. The selling prices were from \$85.00 to \$90.00 and averaged \$88.33 a ton.

ANALYSES OF OFFICIAL SAMPLES OF FEEDING STUFFS COLLECTED BY SPECIAL AGENTS.

The results of chemical analyses and the microscopical examinations of each official sample of feeding stuffs obtained during 1919 by Special Agents of the Department have been tabulated and arranged in classes or groups for comparison in Table III which follows, like feeds and brands being placed together and where two or more samples of the same kind, brand or class were analyzed, the average results are shown. The samples are included in the order of classification indicated in Table I and are placed in alphabetical order of the names of manufacturers or importers and the brand names under each in the same order. In addition to the results of examination, the names and addresses of the selling agents or dealers from whom the samples were secured, the guarantees found upon sacks or attached cards and the selling prices at the rate of 100 lbs. or a ton are shown. The several classes of feeds will be found in the following Table under the following general headings and sub-headings.

OIL CAKE MEALS including cottonseed meal, cottonseed feed, old process linseed oil meal and cocoanut oil meal.

DISTILLERY AND BREWERY BY-PRODUCTS including distillers' dried grains largely from corn, distillers and yeast dried grains and brewers' dried grains.

MAIZE BY-PRODUCTS including corn gluten feed, hominy feed, corn bran and corn feed meal.

WHEAT OFFALS including low grade flour, wheat middlings, wheat middlings with admixtures, mixed feed:—wheat by-products, wheat bran and wheat bran with admixtures.

RYE OFFALS including low grade flour, rye middlings, rye middlings with admixtures and rye mixed feeds.

WHEAT AND RYE OFFALS including wheat, mixed feed and rye middlings.

OAT BY-PRODUCTS including oat feed and oat hulls.

BARLEY OFFALS including barley feed.

BUCKWHEAT OFFALS includng buckwheat middlings and buckwheat feed.

ALFALFA MEAL.

DRIED BEET PULP.

MIXED FEEDS: PROPRIETARY AND MISCELLANEOUS, including proprietary dairy feeds, proprietary dairy feeds with molasses, proprietary stock, horse and mule feeds; proprietary stock, horse and mule feeds with molasses, proprietary calf meals, proprietary swine feeds, proprietary chop feeds, miscellaneous chop feeds, miscellaneous feeds and proprietary poultry foods.

ANIMAL BY-PRODUCTS including meat and bone scrap, tankage and poultry bone.

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
OIL CAKE PRODUCTS.					
COTTONSEED MEAL.					
5055	THE J. E. BARTLETT CO., JACKSON, MICH. "Farmer Brand Choice," -----	Habel & Phillips, Meyersdale.	Per ct. 9.96	Per ct. 41.81	Per ct. 41-48
5015	F. W. BRODE & CO., MEMPHIS, TENN. Dove Brand Prime, -----	J. H. Hershberger & Son, Johnstown.	8.48	41.13	38.63
5046	S. P. DAVIS, LITTLE ROCK, ARK. Veribest Brand, -----	John G. Emert, Somerset,	9.38	42.25	38.50
4892	Veribest Brand, -----	F. K. Painter, Mt. Pleasant.	7.41	41.13	38.50
		Average, -----	8.39	41.69	-----
5313	W. D. HALL, ATLANTA, GA. Prime, -----	Miner-Hillard Milling Co., Plymouth.	7.61	44.25	38.02
5207	HUMPHREYS-GODWIN CO., MEMPHIS, TENN. Forfat Brand, -----	Jacob & Keller Co., St. Marys.	7.20	39.63	38.55
		Total average, -----	8.34	41.70	-----
COTTONSEED FEEDS.					
4714	M. F. BARINGER, PHILADELPHIA, PA. Goodlow, -----	S. Book & Brother, Quarryville.	8.16	38.31	36.00
5132	Goodlow, -----	Continental Condensed Milk Co., Mill Hall.	9.07	36.69	36.00
5031	Goodlow, -----	Lewistown Ice & Storage Co., Lewistown.	7.74	35.06	36.00
5036	Goodlow, -----	Spanogle-Yeager Milling Co., Lewistown.	7.80	34.44	36.00
		Average, -----	8.19	36.12	-----
5398	THE J. E. BARTLETT CO., JACKSON, MICH. Farmer Brand "Straight," -----	J. H. Lavery's Sons, Franklin.	9.12	37.25	36.00
4852	Farmer Brand "Straight," -----	J. E. Pritts, Scottdale, --	7.87	35.75	36.00
5064	Farmer Brand "Straight," -----	Somerset Milling Co., Somerset.	9.78	38.31	36.00
5018	Farmer Brand "Straight," -----	Weaver & Berkey, Windber.	8.65	38.63	36.00
		Average, -----	8.85	37.49	-----
4904	W. P. BATTLE & CO., MEMPHIS, TENN. "Battle Brand" Good, -----	H. O. Andrews, Mapleton,	8.66	36.38	36.00
4804	"Battle Brand" Good, -----	A. B. Harnish, Mechanicsburg.	8.72	36.13	36.00
		Average, -----	8.69	36.26	-----
5469	F. W. BRODE & CO., MEMPHIS, TENN. Jay Brand, -----	Shamokin Milling Co., Shamokin.	8.67	37.56	36.00

FEEDING STUFFS COLLECTED IN 1919.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.63	Per ct. 5-12	Per ct. 11.25	Per ct. 6-14				
				\$3 75	-----	Cottonseed meal and excessive amount of hulls.	5055
5.70	6.00	11.99	12.00	3 50	Made from cottonseed --	Cottonseed meal and excessive amount of hulls.	5015
7.48	6.00	9.25	10.00	3 50	Made from decorticated cottonseed.	As certified, -----	5046
5.98	6.00	13.50	10.60	3 50	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	4862
6.73	-----	11.37	-----	3 50			
9.40	6.00	9.50	12.00	3 75	Made from upland cottonseed.	As certified, -----	5813
8.08	5.00	10.90	12.00	3 65	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	5207
7.21	-----	11.05	-----	3 61			
6.70	5.00	11.65	16.00	3 25	-----	Cottonseed meal and cottonseed hulls.	4714
6 63	5.00	14.42	16.00	64 00	-----	Cottonseed meal and cottonseed hulls.	5132
7.18	5.00	14.17	16.00	3 50	-----	Cottonseed meal and cottonseed hulls.	5031
7.13	5.00	15.22	16.00	3 50	-----	Cottonseed meal and cottonseed hulls.	5036
6.76	-----	13.86	-----	67 25			
6.63	5.00	12.62	17.00	4 25	-----	Cottonseed meal and cottonseed hulls.	5398
6.05	5.00	15.31	17.00	3 10	-----	Cottonseed meal and cottonseed hulls.	4852
6.23	5.00	13.04	17.00	3 25	-----	Cottonseed meal and cottonseed hulls.	5064
5.48	5.00	13.50	17.00	3 35	-----	Cottonseed meal and cottonseed hulls.	5018
6.10	-----	13.61	-----	3 49			
8.15	5-6	14.70	15.00	3 75	-----	Cottonseed meal and cottonseed hulls.	4904
5.73	5-6	12.05	15.00	67 00	-----	Cottonseed meal and cottonseed hulls.	4804
6.94	-----	13.37	-----	71 00			
7.08	5.00	14.20	14.00	3 80	Cottonseed meal and cottonseed hulls.	As certified, -----	5469

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
	THE BUCKEYE COTTON OIL CO., CINCINNATI, OHIO.				
4816	Buckeye Good, -----	Buffalo Flour Mills, Milton,	Per ct. 7.24	Per ct. 37.19	Per ct. 36.00
5755	Buckeye Good, -----	Diehl, Omwake & Diehl, Chambersburg.	7.24	39.81	36.00
4755	Buckeye Good, -----	G. W. Engle, Hazleton, --	9.09	35.59	36.00
5439	Buckeye Good, -----	Mathers Brothers, Green- ville.	9.36	36.13	36.00
5367	Buckeye Good, -----	New Castle Feed Co., New Castle.	7.73	38.44	36.00
		Average, -----	8.13	37.41	-----
5509	CENTRAL COTTON OIL CO., JACKSON, MISS. *Cottonseed Feed, -----	F. P. Case & Son, Troy,--	9.00	38.94	36.00
5756	S. P. DAVIS, LITTLE ROCK, ARK. Beauty Brand, -----	Diehl, Omwake & Diehl, Chambersburg.	8.74	38.25	36.00
5123	Beauty Brand, -----	Earley & Detweiler, Pal- myra.	9.84	39.06	36.00
4793	Beauty Brand, -----	J. F. Hogsett & Son, Uniontown.	8.23	38.13	36.00
4781	Beauty Brand, -----	C. W. Royer & Co., Ta- maqua.	8.56	37.13	36.00
4782	Beauty Brand, -----	Thompson & Glenn, But- ler.	7.46	41.75	36.00
4750	Beauty Brand, -----	Geo. Walter & Son, Butler,	6.85	42.50	36.00
		Average, -----	8.28	39.47	-----
	EAST ST. LOUIS COTTON OIL CO., NATIONAL STOCK YARDS, ILL.				
4921	*St. Clair Brand, -----	Centre Milling Co., Philips- burg.	9.50	36.63	36.00
5264	*St. Clair Brand, -----	Smith Brothers Co., Ridg- way.	8.87	38.69	36.00
		Average, -----	9.18	37.66	-----
5510	W. D. HALL CO., ATLANTA, GA. Good, -----	F. P. Case & Son, Troy,--	8.35	36.81	36.00
5040	Good, -----	W. H. Manbeck & Co., Mifflin.	7.86	40.69	36.00
5324	Good, -----	W. S. Stuart, Carlisle, --	8.07	37.81	36.00
		Average, -----	8.09	38.44	-----
5386	HAYES GRAIN & COMMISSION CO., LITTLE ROCK, ARK. Arkansaw Brand, -----	Clyde D. Duffee, Oil City,	10.02	38.25	36.00
5355	Arkansaw Brand, -----	Fisher Feed & Coal Co., New Castle.	10.01	38.00	36.00
4942	Arkansaw Brand, -----	Monaca Roller Mills, Mon- aca.	8.27	32.69	36.00
		Average, -----	9.43	36.31	-----
5211	HUMPHREYS-GOODWIN CO., MEM- PHIS, TENN. Danish Brand, -----	DuBois Milling Co., Du- Bois.	8.04	36.94	36.00
5284	Danish Brand, -----	Eulalia Mills, Couders- port.	10.00	38.00	36.00
5104	Danish Brand, -----	Mahoning Valley Milling Co., Punxsutawney.	9.66	36.38	36.00
5298	Danish Brand, -----	The Mandeville Co., Wilkes-Barre.	9.36	36.88	36.00
5113	Danish Brand, -----	Patton & Morrison Milling Co., Reynoldsville.	9.13	36.06	36.00
		Average, -----	9.23	36.85	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
5.85	5.00	14.75	14.50	\$3 50	-----	Cottonseed meal and cottonseed hulls.	4810
6.85	5.00	12.07	14.00	79 00	Cottonseed meal and cottonseed hulls.	As certified, -----	5755
5.95	5.00	12.37	14.00	3 75	-----	Cottonseed meal and cottonseed hulls.	4755
6.18	5.00	14.87	14.00	3 75	-----	Cottonseed meal and cottonseed hulls.	5439
6.78	5.00	14.52	14.00	3 60	-----	Cottonseed meal and cottonseed hulls.	5367
6.32	-----	13.61	-----	74 20	-----		
7.15	5.00	11.75	20.00	3 90	-----	Cottonseed meal and cottonseed hulls.	5509
8.33	6.00	11.47	14.00	79 00	Cottonseed meal and cottonseed hulls.	As certified, -----	5756
6.30	6.00	12.30	14.00	68 00	Cottonseed meal and cottonseed hulls.	As certified, -----	5123
5.90	6.00	10.57	14.00	3 50	Cottonseed meal and cottonseed hulls.	As certified, -----	4793
8.33	6.00	11.00	14.00	3 50	Cottonseed meal and cottonseed hulls.	As certified, -----	4781
6.23	6.00	10.77	14.00	63 50	Cottonseed meal and cottonseed hulls.	As certified, -----	4732
8.29	6.00	9.40	14.00	3 75	Cottonseed meal and cottonseed hulls.	As certified, -----	4750
7.23	-----	10.91	-----	70 92	-----		
6.40	5-6	11.55	16.00	3 75	-----	Cottonseed meal and cottonseed hulls.	4921
6.73	5-6	10.95	16.00	4 50	-----	Cottonseed meal and cottonseed hulls.	5204
6.57	-----	11.25	-----	4 13	-----		
5.98	5.50	14.25	14.00	3 90	Cottonseed meal and cottonseed hulls.	As certified, -----	5510
6.20	5.50	11.97	14.00	3 35	Cottonseed meal and cottonseed hulls.	As certified, -----	5040
5.73	5.50	12.50	14.00	69 00	Cottonseed meal and cottonseed hulls.	As certified, -----	5324
5.97	-----	12.90	-----	71 33	-----		
6.88	5.00	11.89	15.00	3 80	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	5386
6.03	5.00	12.15	15.00	2 75	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	5355
6.62	5.00	15.96	15.00	3 75	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4942
6.51	-----	13.33	-----	3 43	-----		
8.20	5.00	13.30	15.00	3 65	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	5211
6.88	5.00	13.40	15.00	3 50	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	5284
6.05	5.00	13.27	15.00	3 35	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	5104
5.45	5.00	14.57	15.00	3 35	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	5298
7.63	5.00	13.35	15.00	3 60	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	5113
6.84	-----	13.57	-----	3 49	-----		

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5454	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS. *Cottonseed Meal, -----	Mifflinburg Supply Co., Mifflinburg.	Per ct. 9.19	Per ct. 34.88	-----
5069	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Lake Shore, -----	The D. G. Bamford Mill- ing Co., Midway.	8.25	39.19	36.00
4991	Lake Shore, -----	Canonsburg Milling Co., Canonsburg.	9.15	39.63	36.00
4730	Lake Shore, -----	P. J. Oesterling & Son, Butler.	8.87	40.25	36.00
		Average, -----	8.75	39.69	-----
5435	Cottonseed Meal, -----	J. B. Roux, Farrell, ----	8.06	37.50	35.41
5050	LANIER BROTHERS, NASHVILLE, TENN. Holstein Brand, -----	H. C. Beerits Sons, Som- erset.	7.52	42.06	36.00
5085	Holstein Brand, -----	Hoffer & Garman, Harris- burg.	8.35	38.31	36.00
		Average, -----	7.93	40.19	-----
5349	L. B. LOVITT & CO., MEMPHIS, TENN. "Thirty-Six Brand," -----	John S. Brown's Son, New Castle.	8.48	38.13	36.00
5628	"Thirty-Six Brand," -----	Ezl. Dunwoody Co., Phil- adelphia.	8.81	36.19	36.00
5111	"Thirty-Six Brand," -----	Fales Grocery Co., Rey- noldsville.	10.36	36.06	36.00
5374	"Thirty-Six Brand," -----	L. A. Fischer & Co., Bradford.	8.66	36.75	36.00
5153	"Thirty-Six Brand," -----	Haney-Frazier Milling & Elevator Co., Riverside.	9.10	36.13	36.00
5695	"Thirty-Six Brand," -----	Keystone Flour & Feed Co., Punxsutawney.	9.73	37.31	36.00
5404	"Thirty-Six Brand," -----	New Model Milling Co., Oil City.	8.60	32.81	36.00
5677	"Thirty-Six Brand," -----	Nickel Plate Flour Mills Co., Erie.	8.62	40.19	36.00
5692	"Thirty-Six Brand," -----	West Side Feed Co., Erie,	9.28	39.88	36.00
		Average, -----	8.94	37.05	-----
5009	C. L. MONTGOMERY & CO., MEM- PHIS, TENN. Star Brand, -----	J. E. Crisman, South Fork.	9.28	37.63	36-41
4800	Star Brand, -----	M. C. Dietz & Son, Me- chanicsburg.	7.67	40.25	36.00
5222	Star Brand, -----	A. T. Sprankle, DuBois, --	8.39	41.44	36-41
5058	Star Brand, -----	H. W. Walker, Somerset,	7.20	44.06	36-41
		Average, -----	8.13	40.85	-----
5678	W. C. NOTHERN, LITTLE ROCK, ARK. Standard Brand, -----	Nickel Plate Flour Mills, Erie.	8.01	36.75	36.00
5358	Standard Brand, -----	P. Wagner & Son, New Castle.	6.45	38.00	36.00
		Average, -----	7.23	37.38	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.00	Per ct.	Per ct. 15.28	Per ct.	\$3 95		Cottonseed meal and cottonseed hulls.	5454
6.25	5.50	13.40	14.00	3 30		Cottonseed meal and cottonseed hulls.	5069
6.40	5.50	13.45	14.00	65 00		Cottonseed meal and cottonseed hulls.	4991
6.75	5.00	11.55	16.00	3 40	Decorticated cottonseed,	Cottonseed meal and cottonseed hulls.	4730
6.47		12.80		66 33			
5.58		14.80		4 15		Cottonseed meal and cottonseed hulls.	5435
6.28	5.00	11.55	14.00	3 40	Cottonseed meal and cottonseed hulls.	As certified, -----	5050
6.03	5.00	13.85	14.00	3 50	Cottonseed meal and cottonseed hulls.	As certified, -----	5085
6.16		12.70		3 45			
6.68	5.00	13.02	14.00	3 40		Cottonseed meal and cottonseed hulls.	5349
6.63	5.00	11.95	14.00	75 00		Cottonseed meal and cottonseed hulls.	5626
5.28	5.00	14.12	14.00	4 00		Cottonseed meal and cottonseed hulls.	5111
5.95	5.00	13.00	14.00	4 25		Cottonseed meal and cottonseed hulls.	5374
5.68	5.50	11.35	14.00	3 69		Cottonseed meal and cottonseed hulls.	5153
5.43	5.00	13.20	14.00	3 75		Cottonseed meal and cottonseed hulls.	5695
6.35	5.00	16.76	14.00	3 80		Cottonseed meal and cottonseed hulls.	5404
7.25	5.00	12.07	14.00	75 00		Cottonseed meal and cottonseed hulls.	5677
7.28	5.00	12.40	14.00	3 90		Cottonseed meal and cottonseed hulls.	5692
6.28		13.09		76 00			
9.08	6-8	11.80	10-14	3 25	Made from pressed cot- tonseed.	Cottonseed meal and cottonseed hulls.	5009
5.98	6.00	10.47	14.00	3 40	Made from pressed cot- tonseed.	Cottonseed meal and cottonseed hulls.	4800
7.25	6-8	10.55	10-15	3 75	Made from pressed cot- tonseed.	Cottonseed meal and cottonseed hulls.	5222
7.65	6-8	8.75	10-14	3 40	Made from pressed cot- tonseed.	Cottonseed meal and cottonseed hulls.	5058
7.49		10.39		3 45			
5.78	5.00	13.45	12.00	75 00	Made from pressed cot- tonseed.	Cottonseed meal and cottonseed hulls.	5678
5.50	5.00	13.60	12.00	3 50	Made from pressed cot- tonseed.	Cottonseed meal and cottonseed hulls.	5358
5.64		13.52		72 50			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5141	TAYLOR COMMISSION CO., AT LANTA, GA. Taylor Brand, -----	N. J. Hockman, Bellefonte.	Per ct. 9.53	Per ct. 19.88	Per ct. 20.00
5763	Taylor Brand, -----	Walker Brothers, Chambersburg.	9.50	37.94	36.00
4806	UNION SEED & FERTILIZER CO., NEW YORK, N. Y. Columbia, -----	A. B. Harnish, Mechanicsburg.	8.79	22.50	20.56
5327	Columbia, -----	A. L. Heckman, Shippensburg.	9.97	22.81	20.56
		Average, -----	9.38	22.63	-----
4830	Surety Brand, -----	Blank & Gottshall, Sunbury.	8.46	38.44	36.00
4983	Surety Brand, -----	J. O. Reed, Phillipsburg,--	7.77	38.07	36.00
4878	Surety Brand, -----	J. A. Siorski, Oakdale, --	8.70	40.17	36.00
5021	Surety Brand, -----	Swope Brothers, Johnstown.	7.35	42.87	36.00
		Average, -----	8.07	39.77	-----
		Total average, -----	8.60	37.22	-----
	LINSEED OIL MEAL, O. P.				
5150	AMERICAN LINSEED CO., BUFFALO, N. Y. Old Process Oil Meal, -----	Haney-Frazier Milling & Elevator Co., Riverside.	9.61	38.13	34.00
4791	Old Process Oil Meal, -----	J. F. Hogsett & Son, Uniontown.	9.96	37.63	34.00
4731	Old Process Oil Meal, -----	P. J. Oesterling & Son, Butler.	10.01	38.75	34.00
5063	Old Process Oil Meal, -----	Somerset Milling Co., Somerset.	10.14	38.25	34.00
4771	Old Process Oil Meal, -----	Stemler Brothers, East Mauch Chunk.	8.18	39.38	34.00
		Average, -----	9.58	38.43	-----
5010	ARCHER-DANIELS LINSEED CO., BUFFALO, N. Y. Old Process Ground Oil Cake, -----	J. E. Crisman, South Fork.	10.26	36.13	33.00
5164	Old Process Ground Oil Cake, -----	Danville Milling Co., Danville.	10.87	36.88	33.00
5545	Old Process Ground Oil Cake, -----	Dayton Milling Co., Towaunda.	9.86	34.25	33.00
5373	Old Process Ground Oil Cake, -----	L. A. Fischer & Co., Bradford.	10.17	34.94	33.00
4782	Old Process Ground Oil Cake, -----	C. W. Royer & Co., Tamaqua.	9.54	36.56	33.00
4879	Old Process Ground Oil Cake, -----	J. A. Siorski, Oakdale, --	9.46	46.75	33.00
5149	Old Process Ground Oil Cake, -----	J. S. Waite & Co., Bellefonte.	9.15	35.19	33.00
		Average, -----	9.90	37.24	-----
4874	HIRST & BEGLEY LINSEED CO., CHICAGO, ILL. Linseed Oil Meal, -----	Johnston & Smith, Wilkinsburg.	9.25	37.19	34.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.5	Per ct. 3.50	Per ct. 23.97	Per ct. 25.00	\$3 25	Cottonseed meal and cottonseed hulls.	As certified, -----	5141
8.83	5.50	12.90	14.00	4 00	Cottonseed meal and cottonseed hulls.	As certified, -----	5763
3.50	3.00	21.20	25.00	51 00	Cottonseed meal and cottonseed hulls.	As certified, -----	4806
4.08	3.00	22.23	25.00	2 50	Cottonseed meal and cottonseed hulls.	As certified, -----	5827
3.79	-----	21.71	-----	50 50	-----	-----	-----
6.35	5.50	10.17	14.00	-----	Cottonseed meal and cottonseed hulls.	As certified, -----	4830
5.30	5.50	15.86	14.00	4 00	-----	Cottonseed meal and cottonseed hulls.	4983
7.10	5.50	13.75	14.00	68 00	Cottonseed meal and ground cottonseed hulls.	As certified, -----	4878
6.75	5.50	10.77	14.00	3 35	Cottonseed meal, -----	Cottonseed meal and cottonseed hulls.	5021
6.38	-----	12.63	-----	71 67	-----	-----	-----
6.44	-----	13.28	-----	71 38	-----	-----	-----
5.05	5.00	7.55	8.00	3 75	-----	Linseed oil meal, -----	5150
5.83	5.00	6.55	8.00	3 50	-----	Linseed oil meal, -----	4791
5.78	5.00	6.80	8.00	3 40	-----	Linseed oil meal, -----	4731
5.53	5.00	8.02	8.00	3 60	-----	Linseed oil meal, -----	5063
6.13	5.00	6.60	8.00	3 95	-----	Linseed oil meal, -----	4771
5.78	-----	7.10	-----	3 64	-----	-----	-----
6.35	6.00	8.15	10.00	3 25	-----	Linseed oil meal, -----	5010
6.35	6.00	7.77	10.00	3 75	-----	Linseed oil meal, -----	5164
5.88	6.00	7.42	10.00	5 00	-----	Linseed oil meal, -----	5545
6.30	6.00	7.00	10.00	4 25	-----	Linseed oil meal, -----	5373
6.73	6.00	6.00	10.00	3 25	-----	Linseed oil meal, -----	4782
7.30	6.00	6.95	10.00	70 00	-----	Linseed oil meal, -----	4879
7.65	6.00	8.70	10.00	75 00	-----	Linseed oil meal, -----	5149
6.65	-----	7.42	-----	76 43	-----	-----	-----
6.98	6.00	8.92	9.00	3 75	-----	Linseed oil meal and trace of oat hulls.	4874

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
	SPENCER KELLOGG & SONS, INC., BUFFALO, N. Y.		Per ct.	Per ct.	Per ct.
5500	Pure Old Process Oil Meal, -----	Farmers' & Consumers' Commercial Union, Troy.	8.89	35.13	33.00
5145	Pure Old Process Oil Meal, -----	N. J. Hockman, Bellefonte.	9.50	35.81	33.00
5312	Pure Old Process Oil Meal, -----	Miner-Hilliard Milling Co., Plymouth.	8.58	40.50	33.00
5351	Pure Old Process Oil Meal, -----	Nickel Plate Flour Mills, Erie.	9.41	37.69	33.00
		Average, -----	9.69	37.28	-----
	THE MANN BROTHERS CO., BUF- FALO, N. Y.				
4772	Pure Old Process Linseed Oil Meal,--	D. O. Christman, Weisport.	9.56	38.06	33.00
5387	Pure Old Process Linseed Oil Meal,--	Clyde D. Duffee, Oil City,	10.23	32.81	33.00
5049	Pure Old Process Linseed Oil Meal,--	John G. Emert, Somerset.	10.77	37.88	31.00
5290	Pure Old Process Linseed Oil Meal,--	Eulalia Mills, Coudersport.	9.83	36.13	33.00
		Average, -----	10.09	36.22	-----
	MIDLAND LINSEED PRODUCTS CO., MINNEAPOLIS, MINN.				
4743	Old Process Ground Linseed Cake, --	Geo. Ifft & Sons, Evans City.	9.64	35.94	30.00
5299	Old Process Ground Linseed Cake, --	The Mandeville Co., Wilkes-Barre.	10.15	37.69	30.00
4986	Old Process Ground Linseed Cake, --	J. O. Reed, Phillipsburg,--	8.76	36.13	30.00
		Average, -----	9.51	36.59	-----
	MILWAUKEE LINSEED OIL WORKS, MILWAUKEE, WIS.				
5456	*Ground Linseed Cake, -----	Mifflinburg Supply Co., Mifflinburg.	9.50	36.25	32-35
	THE SHERWIN-WILLIAMS CO., CLEVELAND, OHIO.				
5438	S. W. C. Linseed Oil Meal, -----	J. B. Roux, Farrell, -----	9.22	38.63	36.00
5653	S. W. C. Linseed Oil Meal, -----	Russell Brothers, Washington.	10.31	37.06	33-36
		Average, -----	9.76	37.85	-----
	THOMPSON & CO., PITTSBURGH, PA.				
4850	Oil Meal as Stock Food, -----	Irwin Flour Mills, Irwin,	10.10	35.69	30.00
4787	Oil Meal as Stock Food, -----	King Brothers, Unlontown,	9.51	36.88	30.00
4919	Oil Meal as Stock Food, -----	H. H. Lysinger & Son, Bedford.	10.82	37.69	30.00
		Average, -----	10.14	36.75	-----
	THE TOLEDO SEED & OIL CO., TOLEDO, OHIO.				
4943	Old Process Oil Meal, -----	Monaca Roller Mills, Monaca.	9.39	38.69	35.00
		Total average, -----	9.37	37.25	-----
	COCOANUT OIL MEAL.				
	THE GORGAS-PIERIE MANUFAC- TURING CO., NEW YORK, N. Y.				
5402	*Copra Cake Meal, -----	New Model Milling Co., Oil City.	8.84	22.69	21.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
5.96	5.00	7.90	10.00	\$4 60	-----	Linseed oil meal, -----	5506
5.40	5.00	8.32	10.00	4 00	-----	Linseed oil meal, -----	5145
6.78	5.00	7.17	10.00	3 95	-----	Linseed oil meal, -----	5312
5.15	5.00	7.55	10.00	77 00	-----	Linseed oil meal, -----	5681
5.81	-----	7.73	-----	79 00	-----		
7.58	6.00	6.72	10.00	3 50	-----	Linseed oil meal, -----	4772
6.85	6.00	7.52	10.00	3 80	-----	Linseed oil meal, -----	5387
6.33	6.00	6.52	10.00	3 50	-----	Linseed oil meal, -----	5049
6.90	6.00	7.17	10.00	3 75	-----	Linseed oil meal, -----	5290
6.92	-----	6.98	-----	3 64	-----		
9.15	5.00	6.02	8.50	3 35	-----	Linseed oil meal, -----	4743
8.08	5.00	6.77	9.50	3 30	-----	Linseed oil meal, -----	5299
7.63	5.00	6.95	9.50	4 00	-----	Linseed oil meal, -----	4986
8.29	-----	6.58	-----	3 55	-----		
6.90	5-8	8.27	8-10	3 95	-----	Linseed oil meal, -----	5456
6.18	6-7	7.62	8.00	3 75	-----	Linseed oil meal, -----	5438
6.00	6-7	7.75	8.00	4 50	-----	Linseed oil meal, -----	5653
6.09	-----	7.69	-----	4 13	-----		
6.15	5.50	7.50	11.00	3 75	-----	Linseed oil meal, -----	4850
7.08	5.50	6.57	11.00	3 50	-----	Linseed oil meal, -----	4787
6.08	5.50	7.60	11.00	3 90	-----	Linseed oil meal, -----	4919
6.44	-----	7.22	-----	3 72	-----		
6.36	6.00	7.22	10.00	3 65	-----	Linseed oil meal, -----	4943
6.55	-----	7.34	-----	75 29	-----		
10.35	6.00	7.70	11.00	3 00	-----	Cocoanut oil meal, ---	5402

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
	THE PROCTOR & GAMBLE MANUFACTURING CO., CINCINNATI, OHIO.		Per ct.	Per ct.	Per ct.
5056	P. & G. Copra Oil Meal, -----	Habel & Phillips, Meyersdale.	9.72	23.13	20.00
5042	P. & G. Copra Oil Meal, -----	Saylor & Woy, Somerset,	9.44	21.00	26.00
		Average, -----	9.58	22.07	-----
		Total average, -----	9.33	22.27	-----
	DISTILLERY & BREWERY BY-PRODUCTS.				
	DISTILLERS' DRIED GRAINS.				
	(Largely from Corn.)				
	AMERICAN MILLING CO., PEORIA, ILL.				
5105	*Empire State Dairy Feed, -----	Mahoning Valley Milling Co., Punxsutawney.	8.02	31.38	30.00
	DISTILLERS' AND YEAST DRIED GRAINS.				
	THE CORBY CO., WASHINGTON, D. C.				
5291	Corby Dried Yeast Grains, -----	Wilkes-Barre Milling Co., Wilkes-Barre.	7.09	18.75	16.00
	THE FLEISCHMAN CO., CHICAGO, ILL.				
5717	Fleischman's Dried Grains, -----	Tyrone Milling Co., Tyrone.	7.50	16.50	16.00
5292	Fleischman's Dried Grains, -----	Wilkes-Barre Milling Co., Wilkes-Barre.	7.45	17.44	16.00
		Average, -----	7.34	17.56	-----
	THE FLEISCHMAN CO., PEEKSKILL, N. Y.				
4776	Fleischman's Dried Grains, -----	D. O. Christman, Weisport.	7.66	21.75	20.00
	WALTERS MILLING CO., PHILADELPHIA, PA.				
5621	*Dried Yeast Grains, -----	Walters Milling Co., Philadelphia.	7.85	17.75	16.00
		Total average, -----	7.51	18.44	-----
	BREWERS' DRIED GRAINS.				
	FARMERS FEED CO., NEW YORK, N. Y.				
5311	Bull Brand Dried Brewers Grains, ---	Miner-Hilliard Milling Co., Plymouth.	7.45	21.63	27.20 to 30.00
	MILWAUKEE GRAINS & FEED CO., MILWAUKEE, WIS.				
5103	Crown Brewers Dried Grains, -----	Mahoning Valley Milling Co., Punxsutawney.	8.94	22.13	25.00
	STEGMAIER BREWING CO., WILKES-BARRE, PA.				
5293	Dried Brewers' Grains, -----	Wilkes-Barre Milling Co., Wilkes-Barre.	8.08	23.00	22.25

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
8.40	6.00	8.35	12.00	\$2 90	Made from dried cocoanut meats.	Cocoanut oil meal, ----	5056
13.93	6.00	8.00	12.00	3 00	Made from dried cocoanut meats.	Cocoanut oil meal, ----	5042
11.16	-----	8.17	-----	2 95			
10.89	-----	8.01	-----	2 97			
10.80	10-12	10.12	14.00	3 40	Corn distillers' dried grains.	As certified, -----	5105
5.38	5.00	19.42	22.00	53 00	From the manufacture of compressed yeast, barley malt, rye malt, malt sprouts, corn.	As certified, -----	5291
6.58	7.00	20.30	21.00	2 75	Dried yeast grains from corn, barley malt, oat malt and sprouts.	As certified, -----	5717
8.95	7.00	20.77	21.00	53 00	Dried yeast grains from corn, barley malt, oat malt and sprouts.	As certified, -----	5292
6.97	-----	20.16	-----	53 67			
6.65	7.00	16.22	19.00	2 90	Dried distillers' and yeast grains from corn, rye, barley malt and sprouts.	As certified, -----	4770
6.63	7.00	23.15	21.00	31 00		Dried yeast grains, ----	5621
6.72	-----	19.97	-----	50 00			
6.15	6.3-8	16.77	12.85 to 15.20	3 00		Brewers' dried grains,--	5311
6.15	5.00	15.60	15.00	3 00		Brewers' dried grains,--	5103
7.13	7.39	15.80	16.50	58 60		Brewers' dried grains,--	5293

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5619	WALTERS MILLING CO., PHILADELPHIA, PA. *Brewers' Grains, -----	Walters Milling Co., Philadelphia.	Per ct. 7.91	Per ct. 22.38	Per ct. 24-28
5195	WESTERN GRAINS & FEED CO., CHICAGO, ILL. Brewers' Dried Grains, -----	S. A. Fishburn, Penbrook, Average, -----	7.85 8.04	21.88 22.20	25.00 -----
MAIZE BY-PRODUCTS.					
CORN GLUTEN FEED.					
5592	AMERICAN MAIZE PRODUCTS CO., ROBY, IND. Cream of Corn, -----	Warren City Mills, Warren.	9.31	24.06	23.00
4992	PRODUCTS REFINING CO., NEW YORK, N. Y. Buffalo, -----	Canonsburg Milling Co., Canonsburg.	10.20	29.06	23.00
5507	Buffalo, -----	F. P. Case & Son, Troy.	10.35	27.38	23.00
5549	Buffalo, -----	Dayton Milling Co., Towanda.	9.33	23.13	23.00
5283	Buffalo, -----	Eulalia Mills, Coudersport.	9.99	28.69	23.00
5440	Buffalo, -----	Mathers Brothers, Greenville.	9.36	29.19	23.00
4945	Buffalo, -----	Monaca Roller Mills, Monaca.	10.45	25.63	23.00
5680	Buffalo, -----	Nickel Plate Flour Mills, Erie.	10.80	28.84	23.00
		Average, -----	10.06	27.42	-----
5400	DOUGLAS COMPANY, CEDAR RAPIDS, IOWA. Douglas, -----	J. H. Lavery's Sons, Franklin.	8.56	33.88	23.00
5492	J. C. HUBINGER BROTHERS CO., KEOKUCK, IOWA. KKK, -----	Canton Mercantile Co., Inc., Canton.	10.16	24.69	23.00
5430	A. E. STALEY MANUFACTURING CO., DECATUR, ILL. Staley's, -----	J. M. Porter, Sharon, ---	10.03	27.31	23.00
5224	Staley's, -----	A. T. Sprankle, DuBois, --	10.50	28.94	20.00
		Average, -----	10.26	28.13	-----
		Total average, -----	9.92	27.57	-----
HOMINY FEED.					
4941	AMERICAN HOMINY CO., INDIANAPOLIS, IND. Homco, -----	Monaca Roller Mills, Monaca.	12.39	10.56	9.00
5689	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger, -----	Erie Milling & Supply Co., Erie.	10.10	12.44	10.00
5308	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Choice Steam Cooked, -----	Miner-Hillard Milling Co., Plymouth.	11.27	12.56	10-12
5512	H. ROCKWELL & SON, CANTON, PA. Pure, -----	F. P. Case & Sons, Troy,	9.73	11.31	9.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.23	Per ct. 4-7	Per ct. 16.05	Per ct. 13-18	\$56 00	-----	Brewers' dried grains,--	5619
6.50	5.00	15.77	16.00	3 00	-----	Brewers' dried grains,--	5195
6.63	-----	15.99	-----	58 80	-----		
2.43	1.50	6.62	8.50	3 75	-----	Corn gluten feed, ----	5592
2.60	1.00	6.75	8.50	63 00	Corn gluten feed, ----	As certified, ----	4992
2.30	1.00	7.07	8.50	3 20	-----	Corn gluten feed, ----	5507
4.23	1.00	6.50	8.50	3 65	Corn gluten feed, ----	As certified, ----	5549
2.65	1.00	8.00	8.50	3 50	Corn gluten feed, ----	As certified, ----	5283
1.75	1.00	6.52	8.50	3 50	Corn gluten feed, ----	As certified, ----	5440
1.85	1.00	8.10	8.50	3 50	Corn gluten feed, ----	As certified, ----	4945
1.95	1.00	7.05	8.50	65 00	Corn gluten feed, ----	As certified, ----	5680
2.32	-----	7.14	-----	67 86	-----		
2.85	1.00	4.85	8.00	3 70	-----	Corn gluten feed, ----	5400
3.40	2.40	7.35	7.50	3 30	Corn starch by-product with corn solubles.	As certified, ----	5492
2.50	2.50	7.07	10.00	3 75	Corn gluten feed, ----	As certified, ----	5430
1.80	2.50	5.97	12.00	3 50	Corn bran, corn gluten, corn solubles.	As certified, ----	5224
2.15	-----	6.52	-----	3 63	-----		
2.43	-----	6.82	-----	67 92	-----		
4.73	5.00	2.75	7.00	3.40	Manufactured from white corn.	As certified, ----	4944
6.80	6.00	4.40	5.00	3 25	Made from white corn,	As certified, ----	5689
5.48	4-8	3.67	3-5	3 60	-----	Hominy feed, ----	5308
8.08	6.00	4.00	5.00	4 00	-----	Hominy feed, ----	5512

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5620	WALTERS MILLING CO., PHILADELPHIA, PA. *White, -----	Walters Milling Co., Philadelphia.	Per ct. 10.25	Per ct. 12.19	Per ct. 8-10
	CORN BRAN.	Average, -----	10.74	11.81	-----
4802	THE SCOTT COUNTY MILLING CO., SIKESTOWN, MO. Corn Bran, -----	A. B. Harnish, Mechanicsburg.	7.63	11.56	7.60
	CORN FEED MEAL.				
5726	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. *Corn Feed Meal, -----	J. H. Rodkey, Frankstown.	11.50	11.38	9.50
5511	MYSTIC MILLING & FEED CO., ROCHESTER, N. Y. *Yellow Corn Feed Meal, -----	F. P. Case & Son, Troy.	11.00	12.50	9.00
	WHEAT OFFALS.	Average, -----	11.25	11.94	-----
	LOW GRADE FLOUR.				
5288	HECKER-JONES-JEWELL MILLING CO., BUFFALO, N. Y. Red Dog, -----	Eulalia Mills, Coudersport.	11.06	18.69	16.25
5482	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Fancy Low Grade Flour, -----	J. Harvey Miller, Ligonier.	10.46	17.69	16.90
5098	TENNANT & HOYT COMPANY, LAKE CITY, MINN. *Pure Wheat Red Dog, -----	Keystone Flour & Feed Co., Punxsutawney.	12.09	18.06	17.00
5727	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN. Adrian Red Dog, -----	Peter Blumling, McKees Rocks.	11.73	18.88	16.00
	UNKNOWN.				
5684	*Red Dog, -----	Erie Milling & Supply Co., Erie.	10.76	17.31	17.00
	WHEAT MIDLINGS.	Average, -----	11.22	18.13	-----
5234	ADLER BROTHERS, ALTOONA, PA. *Wheat Middlings, -----	Adler Brothers, Altoona,--	10.10	19.38	-----
5651	THE BENNETT MILLING CO., GRAFTON, OHIO. *Bennett's Sunshine Middlings, -----	Russell Brothers, Washington.	11.12	17.81	-----
5262	CANBY ROLLER MILLS, CANBY, MINN. *Fancy White Wheat Middlings, ----	E. Strickler's Sons, Lebanon.	11.79	17.06	16.20
5034	THE CHRISTIAN MILLS, MINNEAPOLIS, MINN. Wheat Standard Middlings, -----	Geo. Renton & Co., Castle Shannon.	11.61	20.00	15.00
5263	CROOKSTON MILLING CO., CROOKSTON, MINN. *Fine Middlings, -----	E. Strickler's Sons, Lebanon,	11.93	18.63	15.30

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.65	Per ct. 3-6	Per ct. 3.00	Per ct. 4-8	\$64 00		Hominy feed, -----	5620
5.95		3.56		69 80			
9.78	5.00	9.37	15.00	54 00		Corn bran, -----	4802
6.15	5.00	2.97	4.50	3 75	Made from yellow corn,	Corn feed meal, -----	5726
6.62	3.50	3.95	9.00	2 85	Composed of whole yellow corn and corn bran.	As certified, -----	5511
6.39		2.40		3.80			
4.95	5.00	1.77	6.00	3 56	Made from wheat, -----	Low grade flour, -----	5288
4.75	4.50	2.23	4.00	4.00		Low grade flour, -----	5482
4.83	3.70	2.35	2.50	3 50		Low grade flour, -----	5098
4.83	4.00	2.90	4.00	3 75		Low grade flour, -----	5727
3.13	4.00	1.10	3.00	3 90		Low grade flour, -----	5684
4.50		2.07		3.72			
4.28		3.97		2 75	Pure wheat middlings,-----	As certified, -----	5234
5.10		6.30		3 30		Wheat middlings, -----	5651
5.33	4.70	5.82	9.40	2 60		Wheat middlings, -----	5262
5.75	4.70	7.32	9.50	54 00		Wheat middlings, -----	5004
5.93	8.30	7.77	7.60	2 60		Wheat middlings, -----	5266

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4821	W. E. CUSTER, MILTON, PA. *WHEAT MIDDINGS, -----	W. E. Custer, Milton, ---	Per ct. 12.97	Per ct 18.31	-----
5702	J. A. EICHMAN, GLOBE MILLS, PA. *Wheat Middlings, -----	J. A. Eichman, Globe Mills.	12.43	17.31	-----
5699	FRANKLIN MILLING CO., SWINEFORD, PA. *Wheat Middlings, -----	Franklin Milling Co., Swineford.	12.01	18.00	-----
5158	HONEY-FRAZIER MILLING & ELEVATOR CO., RIVERSIDE, PA. *Wheat Middlings, -----	Honey-Frazier Milling & Elevator Co., Riverside.	11.60	17.38	-----
5515	HECKER-JONES-JEWELL MILLING CO., BUFFALO, N. Y. Fancy White Middlings, -----	F. P. Case & Son, Troy,	10.92	17.19	16.50
4784	C. M. HORST, HAGERSTOWN, MD. *Middlings, -----	King Brothers, Uniontown,	11.81	17.75	-----
5286	THE WM. KELLY MILLING CO., HUTCHISON, KANS. Standard Wheat Shorts, -----	Eulalia Mills, Coudersport,	11.41	20.63	16.00
5750	LAKE VIEW MILLING CO., CHAMBERSBURG, PA. *Wheat Middlings, -----	Lake View Milling Co., Chambersburg.	12.31	18.88	-----
5576	LARABEE FLOUR MILLS CORP., KANSAS CITY, MO. Standard Wheat Shorts, -----	J. A. Gault Co., Kittanning.	11.89	20.63	17.00
5106	MANEY MILLING CO., OMAHA, NEB. Pure Wheat Shorts, -----	Fales Grocery Co., Reynoldsville.	12.84	19.38	16.00
5758	THE MARION NATIONAL MILL CO., MARION, OHIO. Middlings, -----	Linus M. Lewis, Indiana,	11.59	19.00	14.40
5171	MAUSDALE ROLLER MILLS, MAUSDALE, PA. *Pure Wheat Middlings, -----	Mausdale Roller Mills, Mausdale.	12.80	16.44	-----
5044	NATIONAL MILLING CO., MINNEAPOLIS, MINN. Choice Pure Wheat Middlings, -----	Saylor & Woy, Somerset,	11.45	17.81	15.80
5588	NEW PRAGUE FLOURING MILL CO., NEW PRAGUE, MINN. Seal of Minnesota Wheat Middlings,	Warren City Mills, Warren,	16.50	17.19	15.00
5572	PILLSBURY FLOUR MILLS CO., MINNEAPOLIS, MINN. Pillsbury's XX Daisy, -----	J. A. Gault Co., Kittanning.	11.63	20.00	16.00
5265	E. STRICKLER'S SONS, LEBANON, PA. *Wheat Middlings, -----	E. Strickler's Sons, Lebanon.	11.96	18.50	-----
5206	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's No. 1 White Middlings, ---	Smith Brothers Co., Ridgeway.	10.93	17.38	-----
5664	WASHINGTON MILLING CO., WASHINGTON, PA. *Wheat Middlings, -----	Washington Milling Co., Washington.	12.18	17.81	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.50		4.97		3 00		Wheat middlings;	4821
4.50		5.15		3 20		Wheat middlings,	5702
5.15		5.07		3 00		Wheat middlings,	5699
4.23		4.47		2 75		Wheat middlings,	5158
4.40	5.50	1.90	7.50	3 40	Made from wheat,	Wheat middlings,	5515
3.98		6.20		3 50		Wheat middlings,	4784
4.95	3.50	5.60	6.50	3 00		Wheat middlings,	5286
4.98		6.07		59 00	Pure wheat middlings,	As certified,	5750
6.40	4.50	4.70	5.50	3 50	Standard wheat shorts,	As certified,	5570
4.25	5.00	3.97	5.50	3 05		Wheat middlings,	5106
4.50	4.93	7.05	6.95	3 25	Pure products of wheat,	Wheat middlings,	5738
4.48		4 05		2 75		Wheat middlings,	5171
5.55	5.10	7.87	8.50	2 60	Pure and unadulterated wheat.	Wheat middlings,	5044
5.35	5.25	7.00	7.00	3 60		Wheat middlings,	5588
4.88	4.00	3.35	4.00	4 00	A pure wheat product,	As certified,	5572
3.20		4.30		2 60		Wheat middlings,	5265
4.75		3.43		4.25		Wheat middlings,	5205
5.18		3.87		3 50		Wheat middlings,	5064

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4757	WELLS - ABBOTT - NEIMAN CO., SCHUYLER, NEB. Pure Wheat Middlings, -----	G. W. Engle, Hazleton,--	Per ct. 11.87	Per ct. 20.06	Per ct. 16.80
5431	YERXA - ANDREWS - THURSTON, MINNEAPOLIS, MINN. Golden Durum Wheat Flour Mid- dlings.	J. M. Porter, Sharon, ---	11.40	18.00	15.50
5080	Golden Durum Wheat Flour Mid- dlings.	John E. Ross, Etna, ----	11.21	18.81	15.50
		Average, -----	11.33	18.41	-----
5633	UNKNOWN. *Wheat Middlings, -----	Keystone Commercial Co., McKeesport.	11.16	16.75	-----
		Total average, -----	11.68	18.37	-----
5442	WHEAT MIDDLINGS WITH AD- MIXTURES. ATLAS FLOUR MILLS, MILWAU- KEE, WIS. *Atlas Wheat Flour Middlings, -----	Mathers Brothers, Green- ville.	11.68	17.44	14.50
5200	*Standard Wheat Middlings, -----	S. A. Fishburn, Penn- brook.	12.34	15.19	13.50
4709	BARBER MILLING CO., MINNEAP- OLIS, MINN. Middlings, -----	F. W. Dawson & Son, Williamsport.	10.85	21.19	14.50
4947	Pure Wheat Middlings with Ground Screenings.	M. W. McCandless, Bea- ver Falls.	10.79	18.38	14.50
5683	BLAINE, MACKAY, LEE CO., NORTH EAST, PA. Pure Wheat Middlings with Mill Run Screenings.	Erie Milling & Supply Co., Erie.	10.50	19.25	16.00
5585	THE CHRISTIAN MILLS, MINNE- APOLIS, MINN. Matchless Wheat Flour Middlings, ---	Swanson Grocery Co., Kane.	11.11	17.19	15.00
5485	THE CLEVELAND MILLING CO., CLEVELAND, OHIO. Standard Middlings, -----	Keystone Supply Co., Jean- nette.	10.75	17.50	13-16
5478	COMMANDER MILL CO., MINNE- APOLIS, MINN. Commander Wheat Flour Middlings,	The Hex Milling Co., Sha- mokin.	10.46	18.88	16.00
5176	Commander Wheat Flour Middlings,	Mausdale Roller Mills, Mausdale.	11.83	18.09	16.00
		Average, -----	11.14	18.79	-----
5707	CROOKSTON MILLING CO., CROOKSTON, MINN. *Fine Middlings, -----	W. H. Kepner, Newport,--	10.52	17.33	15.80
5221	HECKER-JONES-JEWELL MILLING CO., BUFFALO, N. Y. *Standard Middlings, -----	Port Allegany Milling Co., Port Allegany.	11.46	18.25	16.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.53	Per ct. 4.00	Per ct. 6.02	Per ct. 7.80	\$2 25	-----	Wheat middlings, -----	4757
5.10	5.50	5.17	6.50	3 50	-----	Wheat middlings, -----	5431
5.80	5.50	5.10	6.50	60 00	-----	Wheat middlings, -----	5680
5.45	-----	5.13	-----	65 00	-----		
5.25	-----	5.22	-----	3 35	-----	Wheat middlings, -----	5633
4.90	-----	5.28	-----	62 19	-----		
5.48	3.00	6.15	8.00	2 25	Wheat flour middlings with ground screenings not exceeding mill run.	As certified, -----	5442
5.18	4.00	8.82	13.00	2 75	Standard wheat middlings with ground screenings not exceeding mill run.	As certified, -----	5260
5.73	4.75	6.87	11.00	2 75	Middlings with ground screenings not exceeding mill run.	As certified, -----	4709
6.00	4.75	8.77	11.00	2 60	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	4947
6.00	4.00	7.27	6.00	3 00	-----	Wheat middlings and mill run ground screenings.	5683
5.30	4.00	7.55	7.50	2 60	Wheat flour middlings with ground screenings not exceeding mill run.	As certified, -----	5585
5.38	4-6	7.65	9.00	60 00	Standard middlings, from wheat with ground screenings not exceeding mill run.	As certified, -----	5485
5.50	5.00	6.00	8.00	3 50	Wheat flour middlings with ground screenings not exceeding mill run.	As certified, -----	5478
5.93	5.00	4.97	8.00	2 75	Wheat flour middlings with ground screenings not exceeding mill run.	As certified, -----	5176
5.72	-----	5.48	-----	3 14	-----		
6.85	5.80	7.85	7.00	3 25	Fine middlings with ground screenings not exceeding mill run.	As certified, -----	5707
6.28	5.00	7.77	10.00	2 85	Standard middlings with mill run of screenings. Made from wheat.	As certified, -----	5281

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5131	W. J. JENNISON CO., MINNEAPOLIS, MINN. Wheat Standard Middlings, -----	F. H. Dyer, Lock Haven,	Per ct. 10.21	Per ct. 17.38	Per ct. 15.00
4990	LA GRANGE MILLS, RED WING, MINN. Extra Quality Wheat Fine Middlings,	Canonsburg Milling Co., Canonsburg.	11.06	20.19	15.50
5522	Extra Quality Wheat Fine Middlings,	Western Flour Co., Char- leroi.	11.60	17.25	16.50
4708	LISTMAN MILL CO., LA CROSSE, WIS. Elmco Wheat Standard Middlings and Screenings.	Gohl & King, Williamsport,	10.79	20.81	17.03
5380	MAPLE LEAF MILLING CO., LTD., TORONTO, CANADA. Rex Wheat Middlings, -----	Smith Brothers, Brad- ford.	11.91	17.19	16.00
5026	THE MENNEL MILLING CO., TOLEDO, OHIO. Mennel's Middlings, -----	Johnstown Milling Co., Johnstown.	10.81	18.63	15.00
5948	NEWSOME FEED & GRAIN CO., PITTSBURGH, PA. Palmo Midds, -----	John G. Emert, Somerset,	9.78	16.00	16.00
5452	Palmo Midds, -----	R. D. Foreman, Centre Hall.	7.35	17.50	16.00
		Average, -----	8.56	16.75	-----
5252	THE NORTHWESTERN CONSOLIDATED MILLING CO., MINNEAPOLIS, MINN. Wheat Standard Middlings with Ground Screenings not Exceeding Mill Run.	Emporium Milling Co., Emporium.	12.17	15.94	15.00
4756	Wheat Standard Middlings with Ground Screenings not Exceeding Mill Run.	G. W. Engle, Hazleton, --	10.55	16.44	15.00
		Average, -----	11.36	16.19	-----
5558	SHANE BROTHERS & WILSON CO., MINNEAPOLIS, MINN. Wheat Standard Middlings, -----	Harry May, Leechburg, --	11.96	17.06	15.50
5193	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Fairybow Standard Middlings, -----	O. S. Ebersole, Penbrook,	11.38	17.38	15.00
5731	Fairybow Standard Middlings, -----	St. Clair, Rinn & Co., In- diana.	11.53	17.06	15.00
		Average, -----	11.45	17.22	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
5.98	5.00	7.20	10.00	\$3 00	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	5131
6.23	5.00	7.37	9.50	52 00	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	4990
5.85	5.00	7.62	11.00	63 00	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	5522
6.08	5.50	6.15	7.05	2 50	-----	Wheat middlings and ground screenings.	4708
5.10	5.50	6.45	10.00	2 80	Wheat middlings and screenings not exceeding mill run.	As certified, -----	5380
5.38	4.00	6.85	9.50	2 85	Spring wheat feed with ground screenings not exceeding mill run.	Wheat middlings and mill run ground grain screening.	5026
8.63	6.00	8.32	7.00	3 00	Cleaning middlings and palm oil.	Wheat middlings and palm oil.	5048
6.98	7.00	7.95	9.00	2 75	Cleaning middlings and palm oil.	Rye middlings and palm oil.	5452
7.81	-----	8.13	-----	2 88			
5.50	4.50	9.45	11.00	3 20	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	5252
5.43	4.50	8.40	11.00	2 25	-----	Wheat middlings and mill run ground screenings.	4756
5.47	-----	8.92	-----	2 73			
4.68	5.30	8.40	10.50	3 35	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	5558
5.63	5.00	7.77	9.50	2 85	Standard middlings, wheat product and pulverized wheat screenings.	As certified, -----	5193
4.78	5.00	6.97	9.50	3 25	Standard middlings, wheat product and pulverized wheat screenings.	As certified, -----	5731
5.21	-----	7.32	-----	3 05			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5348	THE SLEEPY EYE MILLS, SLEEPY EYE, MINN. Flour Middlings and Screenings, ---	B. N. Palmer & Co., Portage.	Per ct. 11.11	Per ct. 17.81	Per ct. 15.50
5574	Flour Middlings and Screenings, ---	L. Pollock, Kittanning, --	12.18	17.13	15.50
		Average, -----	11.64	17.47	-----
5569	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN. Wheat Standard Middlings, -----	J. A. Gault Co., Kittanning.	10.81	18.13	14.00
5335	Wheat Standard Middlings, -----	L. L. Rice, Carlisle, -----	11.52	17.50	14.00
		Average, -----	11.16	17.82	-----
		Total average, -----	11.02	17.81	-----
	MIXED FEED: WHEAT BY-PRODUCTS.				
5483	CAPITAL CITY MILLING & GRAIN CO., ST. PAUL, MINN. Wheat Mixed Feed, -----	Keystone Supply Co., Jeannette.	10.67	17.19	15.00
5544	DAYTON MILLING CO., TOWANDA, PA. *Wheat Feed, -----	Dayton Milling Co., Towanda.	10.69	15.81	-----
4707	*Wheat Feed, -----	Gohl & King, Williamsport,	10.75	16.81	13-18
		Average, -----	10.72	16.31	-----
5285	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Boston Mixed Feed, -----	Eulalia Mills, Coudersport,	11.25	17.81	16.00
5514	HECKER-JONES-JEWELL MILLING CO., BUFFALO, N. Y. Mixed Feed with Mill Run Screenings,	F. P. Case & Son, Troy,	11.85	16.94	15.00
5304	JOHNSON & CO., FRANKLIN, PA. Wheat Mixed Feed, -----	Johnson & Co., Franklin,	10.91	19.66	-----
4788	KEHLOR FLOUR MILLS CO., ST. LOUIS, MO. Kehlor's Mill Feed, -----	King Brothers, Uniontown,	11.03	19.88	15.60
5501	MYSTIC MILLING & FEED CO., ROCHESTER, N. Y. *Mystic Intermediate Feed, -----	Farmers' & Consumers' Commercial Union, Troy.	11.21	12.63	12.14

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.80	Per ct. 5.10	Per ct. 6.70	Per ct. 8.70	\$53 00	Flour middlings and wheat screenings not exceeding the mill run.	As certified, -----	5348
4.80	5.10	7.25	8.70	3.35	Flour middlings and wheat screenings not exceeding the mill run.	As certified, -----	5574
5.30	-----	6.97	-----	60 00			
4.93	4.00	7.40	11.00	3 30	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	5569
5.48	4.00	7.22	11.00	2 85	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	5335
5.21	-----	7.31	-----	3 08			
5.75	-----	7.39	-----	58 57			
5.70	4.90	7.85	9.50	50 00	-----	Wheat bran, wheat middlings and small amount ground grain screenings.	5483
4.73	-----	7.05	-----	3 25	Manufactured from soft winter wheat.	Wheat bran and wheat middlings.	5544
3.05	3-5	7.85	-----	2 50	-----	Wheat bran and wheat middlings.	4707
4.89	-----	7.45	-----	2 88			
5.48	4.50	8.25	9.75	2 80	Wheat bran, middlings, low grade flour with ground screenings not exceeding mill run.	As certified, -----	5285
4.93	4.50	7.45	11.50	2 95	Wheat bran, standard middlings red dog. All made from wheat with mill run screenings.	As certified, -----	5514
4.38	-----	5.45	-----	3 05	Wheat bran and middlings.	As certified, -----	5394
4.38	4.00	7.15	8.60	2 60	Pure wheat bran and brown middlings run together with ground screenings not exceeding mill run.	As certified, -----	4788
3.63	2-5	1.97	3-4	4 25	-----	Wheat bran and wheat middlings.	5501

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
5502	NATIONAL MILLING CO., TOLEDO, OHIO. *National Feed, -----	Farmers' & Consumers' Commercial Union, Troy.	Per ct. 12.31	Per ct. 16.75	Per ct. 15.00
5295	THE NORTHWESTERN CONSOLIDATED MILLING CO., MINNEAPOLIS, MINN. Planet Feed, -----	Wilkes-Barre Milling Co., Wilkes-Barre.	10.30	18.00	15.00
4962	PARK RIVER MILLING CO., PARK RIVER, N. D. "Dakota" Fancy Spring Mixed Feed, -----	Chas. H. Longcope, Philadelphia.	9.97	18.50	15.00
	WHEAT BRAN.	Total average, -----	10.99	18.13	-----
5235	ADLER BROTHERS, ALTOONA, PA. *Wheat Bran, -----	Adler Brothers, Altoona,--	9.22	17.38	-----
5646	BARBER MILLING CO., MINNEAPOLIS, MINN. Pure Wheat Bran Flakes, -----	C. S. Hunter Co., Washington.	9.65	14.94	13.00
4946	Pure Wheat Bran Flakes, -----	M. W. McCandless, Beaver Falls.	10.50	15.19	13.00
		Average, -----	10.07	15.07	-----
5528	L. G. CAMPBELL MILLING CO., NORTHFIELD, MINN. *Pure Wheat Bran, -----	D. E. Gamble, Monongahela City.	11.32	17.00	13.40
5662	THE CHRISTION MILLS, MINNEAPOLIS, MINN. Matchless Pure Wheat Bran, -----	H. W. Walker Co., Somerset.	10.29	18.31	15.00
4820	W. E. CUSTER, MILTON, PA. *Wheat Bran, -----	W. E. Custer, Milton, ---	10.78	17.50	-----
5548,	DAYTON MILLING CO., TOWANDA, PA. *Wheat Bran, -----	Dayton Milling Co., Towanda.	10.64	17.19	13-17
5701	J. A. EICHMAN, GLOBE MILLS, PA. *Wheat Bran, -----	J. A. Eichman, Globe Mills.	10.29	15.88	-----
5700	FRANKLIN MILLING CO., SWINEFORD, PA. *Wheat Bran, -----	Franklin Milling Co., Swineford.	10.01	16.31	-----
5159	HANEY-FRAZIER MILLING & ELEVATOR CO., RIVERSIDE, PA. *Wheat Bran, -----	Haney-Frazier Milling & Elevator Co., Riverside.	10.84	15.50	-----
5087	HOFFER & GARMAN, HARRISBURG, PA. *Pure Wheat Bran, -----	Hoffer & Garman, Harrisburg.	9.84	17.44	14.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.60	Per ct. 3.75	Per ct. 8.27	Per ct. 10.00	\$2 60	Wheat bran and middlings with ground screenings not exceeding mill run.	As certified, -----	5502
5.85	4.00	6.57	8.00	3 00	A mixture of wheat bran and red dog.	As certified, -----	5295
5.90	4.00	8.20	10.00	3 00	Bran and middlings, screenings not exceeding mill run.	As certified, -----	4962
4.97	-----	6.93	-----	59 09			
4.20	-----	7.65	-----	2 50	Pure-wheat bran, -----	As certified, -----	5285
4.85	3.00	10.10	12.00	2.75	-----	Wheat bran, -----	5646
5.53	3.00	10.72	12.00	2 50	-----	Wheat bran, -----	4946
5.19	-----	10.41	-----	2 63			
4.78	4.50	7.37	12.20	2 60	-----	Wheat bran and small amount ground grain screenings.	5528
4.45	4.00	9.95	10.00	2 40	-----	Wheat bran, -----	5062
4.25	-----	8.20	-----	2 75	-----	Wheat bran, -----	4820
5.65	3-6	9.17	-----	2 75	-----	Wheat bran, -----	5548
4.13	-----	10.65	-----	2 60	-----	Wheat bran, -----	5701
4.40	-----	7.77	-----	50 00	-----	Wheat bran, -----	5700
4.55	-----	8.97	-----	2 75	-----	Wheat bran and ground grain screening.	5159
4.48	4.00	7.95	11.00	2 50	-----	Wheat bran, -----	5087

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5751	LAKE VIEW MILLING CO., CHAMBERSBURG, PA. *Wheat Bran, -----	Lake View Milling Co., Chambersburg.	Per ct. 10.91	Per ct. 17.19	Per ct. -----
4812	LISTMAN MILL CO., LA CROSSE, WIS. Elmco Fancy Wheat Bran, -----	Jos. Burkholder, Hummelstown.	10.65	16.25	15.30
5369	MAPLE LEAF MILLING CO., TORONTO, CANADA. Wheat Bran, -----	L. A. Fischer & Co., Bradford.	13.14	17.00	15.50
5170	MAUSDALE ROLLER MILLS, MAUSDALE, PA. *Pure Wheat Bran, -----	Mausdale Roller Mills, Mausdale.	11.19	16.44	-----
5025	THE MENNELL MILLING CO., TOLEDO, OHIO. Mennel's Fancy Bran, -----	Johnstown Milling Co., Johnstown.	10.12	17.38	15.00
5277	MONARCH MILLING CO., LEBANON, PA. *Wheat Bran, -----	Monarch Milling Co., Lebanon.	10.70	16.56	-----
5045	NATIONAL MILLING CO., MINNEAPOLIS, MINN. Pure Wheat Bran, -----	Saylor & Woy, Somerset.	10.63	15.56	13.00
5251	THE NORTHWESTERN CONSOLIDATED MILLING CO., MINNEAPOLIS, MINN. Pure Wheat Bran, -----	Emporium Milling Co., Emporium.	11.03	15.00	14.50
5479	Pure Wheat Bran, -----	The Hex Milling Co., Shamokin.	10.11	15.31	14.50
5135	Pure Wheat Bran, -----	E. E. Wentz, Lock Haven.	10.42	15.50	14.50
		Average, -----	10.52	15.27	-----
5363	OMAHA FLOUR MILLS CO., OMAHA, NEB. "Omar" Pure Wheat Bran, -----	W. W. Davidson & Son, Ellwood City.	11.23	19.56	14.50
5634	THE ORRVILLE MILLING CO., ORRVILLE, OHIO. *Pure Soft Winter Bran, -----	Keystone Commercial Co., McKeesport.	9.86	14.25	-----
5560	SHANE BROTHERS & WILSON, MINNEAPOLIS, MINN. Clover Leaf Wheat Bran, -----	Harry May, Leechburg, --	10.25	16.13	14.80
5143	ST. PAUL MILLING CO., ST. PAUL, MINN. Korno Pure Wheat Bran, -----	N. J. Hockman, Bellefonte.	9.30	17.13	14.00
5264	E. STRICKLER'S SONS, LEBANON, PA. *Wheat Bran, -----	E. Strickler's Sons, Lebanon.	10.01	16.75	-----
5206	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Winter Wheat Bran, -----	Smith Brothers Co., Ridgeway.	9.30	16.13	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Guaranteed.	Found.	Found.	Guaranteed.				
Per ct. 4.19	Per ct. -----	Per ct. 9.66	Per ct. -----	\$49 00	Pure wheat bran, -----	As certified, -----	5751
5.10	3.50	9.77	13.60	53 00	-----	Wheat bran, -----	4812
5.28	4.50	8.70	12.00	2 50	-----	Wheat bran, -----	5369
4.05	-----	8.07	-----	2 65	-----	Wheat bran and small amount ground screenings.	5170
5.63	4.00	9.60	9.50	2 00	-----	Wheat bran, -----	5025
4.53	-----	10.45	-----	2 30	-----	Wheat bran, -----	5277
5.33	4.02	10.85	13.08	2 50	-----	Wheat bran, small amount grain screen- ings and small amount whole weed seeds.	5045
5.48	4.00	10.00	11.00	3 00	Wheat bran, -----	As certified, -----	5251
5.53	4.00	10.40	11.50	2 60	Wheat bran, -----	As certified, -----	5479
5.73	4.00	10.52	11.00	2 75	-----	Wheat bran, -----	5135
5.58	-----	10.30	-----	2 78	-----	-----	-----
4.85	3.50	8.85	11.60	2 60	Pure wheat bran, -----	As certified, -----	5366
4.33	-----	8.17	-----	2 50	-----	Wheat bran, -----	5634
4.48	4.80	10.32	11.00	2 75	-----	Wheat bran, -----	5560
5.60	4.00	9.10	12.00	2 75	-----	Wheat bran and small amount ground grain screenings.	5143
4.03	-----	9.50	-----	2 50	-----	Wheat bran, -----	5264
4.98	-----	9.56	-----	3.25	-----	Wheat bran, -----	5206

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5633	WASHINGTON MILLING CO., WASHINGTON, PA. *Wheat Bran, -----	Washington Milling Co., Washington.	Per ct. 10.52	Per ct. 16.25	-----
5006	WELLS - ABBOTT - NIEMAN CO., SCUYLER, NEB. Pure Wheat Bran, -----	J. E. Crisman, South Fork,	10.09	17.81	14.60
5130	G. R. WORRICK, MACKEYVILLE, PA. *Wheat Bran, -----	F. H. Dyer, Lock Haven,	11.17	15.81	-----
5760	YERXA - ANDREWS - THURSTON, MINNEAPOLIS, MINN. Nokmos Durum Wheat Bran, -----	Walker Brothers, Cham- bersburg.	10.85	17.19	14.00
	WHEAT BRAN WITH ADMIX- TURES.	Total average, -----	10.47	16.51	-----
5679	BLAINE, MACKAY & LEE CO., NORTH EAST, PA. Pure Wheat Bran and Ground Screen- ings.	Nickel Plate Flour Mills, Erie.	10.18	16.94	15.40
4978	CLARO MILLING CO., LAKE- VILLE, MINN. Claro Wheat Bran, -----	J. T. Murphy, Clearfield,	9.01	15.75	14.00
5175	COMMANDER MILL CO., MINNE- APOLIS, MINN. Commander Wheat Bran, -----	Mausdale Roller Mills, Mausdale.	11.30	15.19	12.60
5463	CROOKSTON MILLING CO., CROOKSTON, MINN. *Coarse Bran, -----	E. C. Noll, Lewisburg, --	9.93	18.13	14.10
5554	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Duluth Imperial Bran, -----	F. H. Hagerman, To- wanda.	10.38	16.63	13.75
4858	EVERETT-AUGHENBAUGH & CO., WAUSECA, MINN. E. A. Co., Wheat Bran, -----	City Feed Store, Scottdale,	10.40	17.00	14.00
5696	GYPSUM CITY MILL & ELEVA- TOR, GYPSUM, KANSAS. *Wheat Bran and Wheat Screenings,	West Side Feed Co., Erie,	9.34	15.88	14.50
5282	HECKER-JONES-JEWELL MILL- ING CO., BUFFALO, N. Y. Choice Wheat Bran, -----	Port Allegany Milling Co., Port Allegany.	9.61	16.19	14.00
5698	Choice Wheat Bran with Mill Run Screenings.	David McMullin, Jr., Philadelphia.	9.66	16.06	14.50
		Average, -----	9.63	16.13	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.40	Per ct.	Per ct. 8.57	Per ct.	\$2 40		Wheat bran, -----	5663
4.68	3.50	10.35	10.00	2 40		Wheat bran, -----	5666
4.03		8.10		3 00		Wheat bran and small amount ground grain screenings.	5130
6.03	5.50	9.85	13.00	2 70		Wheat brand and large amount ground grain screenings.	5760
4.80		9.31		52 55			
4.48	4.00	9.12	10.00	43 00	Wheat bran and ground screenings.	As certified, -----	5679
5.88	3.00	10.90	12.00	2 75	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	4978
5.18	4.00	10.05	12.00	2 65	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	5175
6.23	5.00	9.37	12.00	2 60	Coarse bran with ground screenings not exceeding mill run.	As certified, -----	5463
5.25	4.00	10.20	12.25	2 60	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	5554
5.60	3.00	9.32	12.00	2 75	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	4858
4.75	3.50	10.82	11.00	2 30	Wheat bran and wheat screenings. Wheat screenings not to exceed two per cent.	As certified, -----	5696
5.50	3.25	10.02	13.00	2 70	Choice wheat bran with trace of screenings.	As certified, -----	5282
4.65	3.75	9.90	12.50	46 00	Made from pure hard wheat.	Wheat bran and mill run ground screenings.	5608
5.08		9.96		50 00			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5229	W. J. JENNISON CO., MINNEAPOLIS, MINN. Wheat Bran, -----	F. H. Dyer, Loek Haven,	Per ct. 10.45	Per ct. 14.50	Per ct. 12.00
5287	THE WM. KELLY MILLING CO., HUTCHISON, KANS. Wheat Bran and Screenings, -----	Eulalia Mills, Coudersport,	10.40	19.56	14.50
4777	MAUSER MILL CO., TREIOHLERS, PA. Pure Wheat Bran with Ground Screenings not Exceeding Mill Run.	D. O. Christman, Weissport.	10.48	18.38	14.00
5591	THE MONARCH MILLING CO., HUTCHISON, KANSAS. *Wheat Bran and Scourings, -----	Warren City Mills, Warren,	10.84	16.19	14.50
5239	MONTANA FLOUR MILLS CO., GREAT FALLS, MONT. Montco Wheat Bran, -----	Fay Milling Co., Hollidaysburg.	8.85	17.38	13.86
5199	NEW PRAGUE FLOURING MILL CO., NEW PRAGUE, MINN. Seal of Minnesota Wheat Bran, -----	S. A. Fishburn, Penbrook,	9.31	15.38	13.00
5445	THOMAS PAGE MILLING CO., TOPEKA, KANSAS. *Wheat Bran and Screenings, -----	Lurie Brothers, Sharon, --	11.15	20.13	15.50
5561	PATTERSON MILLING CO., SALTSBURG, PA. *Wheat Bran, -----	Ekin Brothers, Vandergrift.	10.20	17.75	14.50
4833	PILLSBURY FLOUR MILLS, MINNEAPOLIS, MINN. Wheat Bran, -----	F. E. Painter, Mount Pleasant.	9.68	16.38	13.00
4762	RED WING MILLING CO., RED WING, MINN. Bixota Wheat Bran with Ground Screenings not Exceeding Mill Run.	John G. Seager's Sons, Hazleton.	10.83	14.81	13.50
4811	ROYAL MILLING CO., GREAT FALLS, MONT. Royal Wheat Bran with Ground Screenings not Exceeding Mill Run.	Jos. Burkholder, Hummelstown.	10.45	18.81	15.00
5192	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Fancy Brodflake, -----	O. S. Ebersole, Penbrook,	10.80	15.38	13.50
5334	Fancy Brodflake, -----	L. L. Rice, Carlisle, -----	10.09	16.00	13.50
		Average, -----	10.49	15.69	-----
5669	THE SLEEPY EYE MILLS, SLEEPY EYE, MINN. Wheat Bran and Screenings, -----	David McMullin, Jr., Philadelphia.	9.21	16.00	13.50
5575	Wheat Bran and Screenings, -----	L. Pollock, Kittanning,---	10.74	17.06	13.50
		Average, -----	9.97	16.53	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.20	Per ct. 4.00	Per ct. 11.12	Per ct. 12.00	\$3 00	Wheat bran with ground screenings not exceeding mill run.	Wheat bran and mill run ground screenings.	5129
4.35	3.50	8.92	11.00	2 80	Wheat bran and not to exceed 5% of ground screenings.	Wheat bran and mill run ground screenings.	5287
4.45	5.00	8.60	9.00	2 50	-----	Wheat bran and mill run ground screenings.	4777
4.23	3.50	9.72	10.00	2 60	Wheat bran and wheat scourings not to exceed 6½%.	As certified, -----	5591
5.30	3.70	10.00	13.90	55 00	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	5239
5.20	3.00	10.15	15.00	2 50	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	5199
4.55	3.50	8.40	10.00	2 50	-----	Wheat bran and ground screenings.	5445
5.53	5.20	8.35	9.80	2 75	Wheat bran with mill run screenings.	As certified, -----	5561
5.08	4.00	13.50	13.00	2 75	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	4863
5.30	4.10	10.30	15.60	2 50	-----	Wheat bran and mill run ground screenings.	4762
4.70	3.00	8.95	14.00	53 00	-----	Wheat bran and mill run ground screenings.	4811
5.50	4.00	9.90	12.75	2 75	Wheat bran and ground wheat screenings.	As certified, -----	5192
5.50	3.50	10.02	12.75	2 50	Wheat bran and ground wheat screenings.	As certified, -----	5334
5.50	-----	9.96	-----	2.63	-----	-----	-----
4.85	3.20	10.50	13.40	46 00	Wheat bran and wheat screenings not exceeding mill run.	As certified, -----	5609
5.05	3.20	10.05	13.40	2 60	Wheat bran and wheat screenings not exceeding mill run.	As certified, -----	5575
4.95	-----	10.27	-----	49 00	-----	-----	-----

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5081	STANDARD TILTON MILLING CO., ST. LOUIS, MO. Liberty Bond Wheat Bran, -----	John E. Ross, Etna, -----	Per ct. 9.56	Per ct. 19.00	Per ct. 14.50
5650	STAR & CRESCENT MILLING CO., CHICAGO, ILL. Crescent Winter Wheat Bran, -----	Russell Brothers, Wash- ington.	9.72	16.06	15.00
5672	Star Wheat Bran, -----	Linesville Milling Co., Linesville.	10.26	16.00	15.00
4988	TENNANT & HOYT CO., LAKE CITY, MINN. *Wheat Bran, -----	John W. Smith & Brother, Clearfield.	8.91	16.56	14.00
4809	WASHBURN-CROSBY CO., MINNE- APOLIS, MINN. Wheat Bran with Ground Screenings not Exceeding Mill Run.	Jos. Burkholder, Hum- melstown.	10.63	15.63	13.00
5586	Wheat Bran with Ground Screenings not Exceeding Mill Run.	Swanson Grocery Co., Kane.	9.81	16.13	13.00
		Average, -----	10.22	15.88	-----
4843	THE WESTERN STAR MILL CO., SALINA, KANSAS. *Star Winter Wheat Bran and Screen- ings.	McFarland Supply Co., Greensburg.	10.32	20.63	15.00
	RYE OFFALS.	Total average, -----	10.08	16.82	-----
	LOW GRADE FLOUR.				
5357	GLOBE MILLING CO., WATER- TOWN, WIS. Rye Red Dog, -----	P. Wagner & Son, New Castle.	9.55	19.25	17.00
	RYE MIDLINGS.				
4807	SHANE BROTHERS & WILSON CO., MINNEAPOLIS, MINN. Rye Middlings, -----	Jos. Burkholder, Hum- melstown.	9.46	17.56	16.90
	RYE MIDLINGS WITH ADMIX- TURES.				
5356	GLOBE MILLING CO., WATER- TOWN, WIS. Globe Rye Feed, -----	P. Wagner & Son, New Castle.	9.50	18.13	15.00
5043	INTERNATIONAL MILLING CO., NEW PRAGUE, MINN. *De-Pend-On Rye Middlings, -----	Saylor & Woy, Somerset,	11.11	18.06	15.00
	MIXED FEED—RYE BY- PRODUCT.	Average, -----	10.30	18.07	-----
4818	BUFFALO FLOUR MILLS, MIL- TON, PA. Rye Feed, -----	Buffalo Flour Mills, Mil- ton.	11.81	17.75	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.03	Per ct. 4.00	Per ct. 9.12	Per ct. 9.50	\$50 00	Wheat bran with screenings not exceeding mill run.	As certified, -----	5081
4.25	4.00	9.82	10.00	2 75	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	5650
4.23	4.00	9.77	10.00	2 60	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	5672
5.38	4.00	10.97	11.00	2 50	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	4980
5.10	4.00	9.75	13.00	53 00	-----	Wheat bran and mill run ground screenings.	4809
4.63	4.00	10.25	13.00	2 60	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	5586
4.87	-----	10.00	-----	52 50	-----	-----	-----
4.68	3.50	8.52	11.00	2 90	Wheat bran and screenings not to exceed 8% screenings.	As certified, -----	4843
5.02	-----	9.88	-----	52 10	-----	-----	-----
3.60	3.50	2.80	5.00	3 00	-----	Low grade flour, -----	5357
3.83	4.10	5.80	5.40	56 00	-----	Rye middlings and ground grain screenings.	4807
3.70	3.50	5.90	7.00	2 60	-----	Rye middlings and small amount ground grain screenings.	5356
3.48	2.50	5.40	10.00	3 25	Rye middlings with ground screenings not exceeding mill run.	As certified, -----	5043
3.59	-----	5.65	-----	2 93	-----	-----	-----
2.80	-----	3.50	-----	2.60	Rye bran and rye middlings.	As certified, -----	4818

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4746	STAR & CRESCENT MILLING CO., CHICAGO, ILL. Rye Feed, -----	H. F. Gelbach, Evans City.	Per ct. 10.94	Per ct. 18.13	Per ct. 14.00
5196	VOIGHT MILLING CO., GRAND RAPIDS, MICH. Voight's Crescent Brand Rye Feed,--	S. A. Fishburn, Penbrook,	10.45	16.75	15.00
4734	WRIGHT MILLING CO., BERLIN, WIS. Pure Rye Feed, -----	Thompson & Glenn, But- ler.	11.20	17.88	14.50
	WHEAT & RYE OFFALS.	Average, -----	11.10	17.63	-----
5353	THE QUAKER OATS CO., CHI- CAGO, ILL. Buckeye Feed, -----	S. J. Chambers, New Castle.	10.50	18.44	15.50
5704	Buckeye Feed, -----	W. H. Herman & Son, Beaver Springs.	9.80	17.13	15.50
	MAUSER MILL CO., TREICH- LERS, PA.	Average, -----	10.15	17.79	-----
4767	Mixed Wheat and Rye White Mid- dlings with Ground Screenings not Exceeding Mill Run.	Stemler Brothers, East Mauch Chunk.	12.28	20.31	12.00
	OAT BY-PRODUCT.	Total average, -----	10.86	18.63	-----
	OAT FEED.				
4805	PURITY OATS CO. OF DAVEN- PORT, DAVENPORT, IOWA. Purity Oat Feed, -----	A. B. Harnish, Mechan- icsburg.	7.98	11.06	6.73
	OAT HULLS.				
5212	THE QUAKER OATS CO., PETER- BOROUGH, CANADA. *Oat Hulls, -----	DuBois Milling Co., Du- Bois.	6.52	6.19	5.00
	BARLEY OFFALS.				
	BARLEY MIXED FEEDS.				
4720	INTERNATIONAL MILLING CO., NEW PRAGUE, MINN. De-Pend-On Barley Feed, -----	H. J. Klingler & Co., But- ler.	9.90	12.75	6.00
4704	LISTMAN MILL CO., LACROSSE, WIS. *Listman's Barley Mixed Feed, -----	Gohl & King, Williams- port.	9.90	16.13	10.70
4867	PILLSBURY FLOUR MILLS CO., MINNEAPOLIS, MINN. *Barley Mill Feed, -----	Braddock Feed & Supply Co., Braddock.	9.75	14.06	8.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.50	Per ct. 3.00	Per ct. 4.82	Per ct. 7.00	\$3.25	Rye bran and rye middlings.	As certified, -----	4746
3.28	3.00	4.60	6.00	2 50	-----	Rye bran and rye middlings.	5196
3.48	3.00	5.55	7.50	3 20	-----	Rye bran and rye middlings.	4734
3.27	-----	4.60	-----	2.89			
5.20	4.50	7.60	8.50	2 50	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	As certified, -----	5353
4.68	4.50	8.27	8.50	3 00	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	As certified, -----	5704
4.94	-----	7.93	-----	2 75			
4.95	4.00	4.95	10.00	3 00	-----	Corn meal, wheat middlings and rye middlings with mill run ground screenings.	4767
4.94	-----	6.94	-----	2 88			
2.98	2.00	16.52	32.65	37 00	Oat middlings, oat shorts, oat hulls.	As certified, -----	4805
1.98	2.00	27.43	28.00	-----	-----	Oat hulls, -----	5212
2.60	1.00	13.72	28.00	2 75	Barley feed including barley bran, shorts and flour middlings with ground screenings not exceeding mill run.	As certified, -----	4720
3.00	2.88	9.00	19.06	3 00	-----	Barley hulls and barley middlings.	4704
2.93	2.00	11.50	20.00	2 60	Barley hulls, barley bran, barley middlings and ground barley screenings.	As certified, -----	4867

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5007	*Barley Mill Feed, -----	J. E. Crisman, South Fork.	Per ct. 10.29	Per ct. 14.44	Per ct. 8.00
4851	*Barley Mill Feed, -----	Irwin Flour Mills, Irwin,--	9.93	14.44	8.00
4722	*Barley Mill Feed, -----	H. J. Klingler & Co., Butler.	9.54	14.88	8.00
		Average, -----	9.87	14.46	-----
4993	SHANE BROTHERS & WILSON CO., MINNEAPOLIS, MINN. *Barley Feed, -----	Canonsburg Milling Co., Canonsburg.	9.41	14.31	9.50
4801	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Criterion Barley Feed, -----	A. B. Harnish, Mechanicsburg.	9.50	14.25	10.70
4799	STAR & CRESCENT MILLING CO., CHICAGO, ILL. Barley Feed, -----	M. C. Dietz & Son, Mechanicsburg. Total average, -----	10.42 9.84	14.25 14.39	12.00 -----
5330	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN. Barley Screenings, -----	A. L. Heckman, Shippensburg.	9.40	8.13	6.00
	BUCKWHEAT OFFALS.				
	BUCKWHEAT MIDDINGS.				
5550	DAYTON MILLING CO., TOWANDA, PA. *Buckwheat Middlings, -----	Dayton Milling Co., Towanda.	10.05	31.69	-----
5734	HETRICK, WILSON & CO., INDIANA, PA. *Buckwheat Middlings, -----	Hetrick, Wilson & Co., Indiana.	14.82	31.81	-----
4751	GEO. WALTER & SON, BUTLER, PA. *Buckwheat Middlings, -----	Geo. Walter & Son, Butler, Average, -----	8.06 10.97	29.38 30.96	----- -----
	BUCKWHEAT FEED.				
4813	REECE & GREENLY, MILLVILLE, PA. Buckwheat Feed, -----	Buffalo Flour Mills, Milton,	11.14	14.69	10.00
	ALFALFA MEAL.				
4836	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS. Alfalfa Meal, -----	Blank & Gottshall, Sunbury.	7.55	17.19	14.00
5551	TIOGA MILL & ELEVATOR CO., WAVERLY, N. Y. Alfalfa Meal, -----	Dayton Milling Co., Towanda.	9.25	14.44	12.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.95	Per ct. 2.00	Per ct. 10.95	Per ct. 20.00	\$2 75	Barley hulls, barley bran, barley middlings and ground barley screenings.	As certified, -----	5007
3.10	2.00	11.81	20.00	2 75	Barley mill feed with ground barley screenings not exceeding mill run.	As certified, -----	4851
3.28	2.00	12.02	20.00	2 75	Barley hulls, barley bran, barley middlings and ground barley screenings.	As certified, -----	4722
3.07	-----	11.57	-----	2.71			
2.88	3.00	10.62	20.30	55 00	-----	Barley hulls and barley middlings.	4993
2.95	3.00	10.20	14.00	56 00	Entire by-products from the milling of barley into flour.	As certified, -----	4801
2.63	2.50	8.25	10.50	60 00	Barley feed meal, -----	As certified, -----	4799
2.93	-----	10.89	-----	55.89			
2.18	1.00	21.72	25.00	20 00	Barley hulls, middlings and screenings.	Barley hulls, barley middlings, ground screenings and small amount whole weed seeds.	5330
7.45	-----	10.25	-----	3 20	-----	Buckwheat middlings,--	5550
6.73	-----	4.95	-----	3 60	-----	Buckwheat middlings,--	5734
6.73	-----	15.90	-----	2 00	-----	Buckwheat middlings,--	4751
6.97	-----	10.36	-----	2 74			
3.45	2.00	29.16	35.00	2 25	Buckwheat bran, middlings, hulls and of-fals.	As certified, -----	4813
1.88	1.00	26.50	30.00	48 00	-----	Alfalfa meal, -----	4836
1.75	1.00	26.40	35.00	2 80	-----	Alfalfa meal, -----	5551

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5598	THE OTTO WEISS MILLING CO., WICHITA, KANS. Otto Weiss Alfalfa Meal Coarse for Horses and Cows.	Walton Brothers, Phila- delphia.	Per ct. 7.64	Per ct. 15.63	Per ct. 12.00
	DRIED BEET PULP.	Average, -----	8.14	15.75	-----
4866	MAX HOTTELET, MILWAUKEE, WIS. Dried Beet Pulp, -----	Braddock Feed & Supply House, Braddock.	10.47	9.81	8.60
4753	Dried Beet Pulp, -----	G. W. Engle, Hazleton,--	10.25	10.19	8.00
5294	Dried Beet Pulp, -----	Wilkes-Barre Milling Co., Wilkes-Barre.	8.42	9.06	8.00
		Average, -----	9.71	9.69	-----
5563	THE LARROWE MILLING CO., DETROIT, MICH. Dried Beet Pulp, -----	Ekin Brothers, Vander- grift.	9.40	9.25	8.00
4848	Dried Beet Pulp, -----	Irwin Flour Mills, Irwin,--	8.37	10.56	8.00
4717	Dried Beet Pulp, -----	H. J. Klingler & Co., Butler.	9.25	11.00	8.00
		Average, -----	9.00	10.27	-----
	MIXED FEEDS.	Total average, -----	9.86	9.98	-----
	PROPRIETARY DAIRY FEEDS.				
5047	AMERICAN MILLING CO., PEO- RIA, ILL. *Amco Dairy Feed, -----	John G. Emert, Somerset,	9.98	26.19	25.00
4940	J. J. BADENOCK CO., CHICAGO, ILL. Graingold Dairy Feed, -----	Rochester Seed & Supply Co., Rochester.	9.10	24.31	26.00
4931	Graingold Dairy Feed, -----	Peter Shaffer & Son, New Brighton.	9.13	27.94	26.00
		Average, -----	9.11	26.13	-----
4814	BUFFALO FLOUR MILLS, MIL- TON, PA. Cow Feed, -----	Buffalo Flour Mills, Milton,	11.03	6.50	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.55	Per ct. 1.00	Per ct. 27.55	Per ct. 35.00	\$48.00	Ground alfalfa hay, ----	As certified, -----	5598
1.73	-----	26.81	-----	50.67			
0.85	0.50	16.77	20.00	2.75	-----	Dried beet pulp, -----	4806
1.00	0.50	17.90	20.00	2.65	-----	Dried beet pulp, -----	4753
0.66	0.50	17.97	20.00	2.90	-----	Dried beet pulp, -----	5294
0.83	-----	17.54	-----	2.77			
0.65	0.50	18.85	20.00	2.90	Residue of sugar beets dried after extraction of sugar.	As certified, -----	5563
0.90	0.50	17.75	20.00	2.70	Residue of sugar beets dried after extraction of sugar.	As certified, -----	4848
6.60	0.50	18.62	20.00	2.90	Residue of sugar beets dried after extraction of sugar.	As certified, -----	4717
0.72	-----	18.40	-----	2.83			
0.78	-----	17.97	-----	2.80			
5.53	8.00	11.15	16.00	3.25	Corn gluten feed, clipped oat by-product, corn, distillers' dried grains and solubles, cottonseed meal, palm kernel meal, calcium carbonate and salt.	Corn gluten feed, oat middlings, oat hulls, oat shorts, corn distillers' dried grains and solubles, cottonseed meal, palm kernel meal, calcium carbonate and salt.	5047
5.15	5.00	10.02	13.00	3.25	Hominy feed, cottonseed meal, old process oil meal, corn gluten feed, ground oats, wheat bran with not to exceed mill run screenings, and 1% salt.	As certified, -----	4940
5.60	5.00	10.85	14.00	3.35	Hominy feed, cottonseed meal, old process oil meal, corn gluten feed, ground oats, wheat bran with not to exceed mill run screenings, and 1% salt.	As certified, -----	4931
5.38	-----	10.43	-----	3.30			
4.50	-----	10.15	-----	2.90	Bran, corn bran, cottonseed meal, middlings, corn chop, buckwheat feed, oil meal.	Wheat bran, corn bran, cottonseed meal, corn chop, buckwheat middlings, buckwheat hulls, linseed oil meal, barley middlings and barley hulls.	4814

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4871	THE CANTON FEED & MILLING CO., CANTON, OHIO. Bako Milk Feed, -----	Denny & Allison, Hickory,	Per ct. 8.73	Per ct. 24.69	Per ct. 24.00
5068	CHAPIN & CO., HAMMOND, IND. Triangle Dairy Feed, -----	The D. G. Bamford Mill- ing Co., Midway.	8.88	21.00	21.00
5644	Triangle Dairy Feed, -----	C. S. Hunter Co., Wash- ington.	8.85	22.19	21.00
5399	Triangle Dairy Feed, -----	J. H. Lavery's Sons, Franklin.	10.28	22.69	21.00
5517	Unicorn Dairy Ration, -----	Average, -----	9.33	21.96	-----
		F. P. Case & Son, Troy,	9.39	26.94	26.00
4795	Unicorn Dairy Ration, -----	M. C. Dietz & Son, Me- chanicsburg.	8.29	29.37	26.00
5016	Unicorn Dairy Ration, -----	J. H. Hershberger & Son, Johnstown.	8.77	28.25	26.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 8.20	Per ct. 7.00	Per ct. 11.80	Per ct. 10.00	\$65 00	Oil meal, cottonseed meal, oat feed, cocoa meal, corn and wheat bran.	Linseed oil meal, cottonseed meal, oat middlings, oat hulls, coconut oil meal, corn bran and wheat bran.	4871
4.75	4.00	10.50	12.00	3 40	Linseed meal, cottonseed meal, corn gluten feed, corn germ meal, copra meal (coconut oil meal), hominy meal, oat meal, mill by-products (oat middlings, oat hulls, oat shorts), salt, ground barley.	As certified, -----	5008
5.35	4.00	9.72	12.00	3 80	Cottonseed meal, linseed meal, corn gluten feed, corn oil meal, brewers' grains, wheat bran with mill run screenings, corn gluten meal, hominy meal, ground barley, ground oats, copra meal and salt.	As certified, -----	5644
3.78	4.00	10.55	12.00	3 50	Linseed meal, cottonseed meal, corn gluten feed, corn germ meal, copra meal, hominy meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), salt.	As certified, -----	5399
4.63	-----	10.25	-----	3 57			
5.55	4.50	9.62	10.00	3 75	Cottonseed meal, linseed meal, corn oil meal, corn gluten feed, corn gluten meal, brewers' grains, wheat bran with mill run screenings, hominy meal, salt.	As certified, -----	5517
5.50	5.50	8.92	11.00	65 00	Ajax flakes (corn distillers' grains), gluten feed, corn starch by-product with corn bran, cottonseed meal, hominy meal, barley feed, copra meal, brewers' grains, wheat bran, linseed meal, salt.	Corn distillers' dried grains, corn gluten feed, corn starch by-product with corn bran, cottonseed meal, hominy meal, barley middlings, barley hulls, coconut oil meal, brewers' dried grains, wheat bran, linseed oil meal and salt.	4795
6.15	5.50	9.52	11.00	3 60	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-product with corn bran, barley feed, copra meal, wheat bran, brewers' grains and salt.	Corn distillers' dried grains, cottonseed meal, linseed oil meal, hominy meal, corn gluten feed, corn starch by-product with corn bran, barley middlings, barley hulls, wheat bran, brewers' dried grains and salt.	5016

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5645	Unicorn Dairy Ration, -----	C. S. Hunter Co., Wash- ington.	Per ct. 8.70	Per ct. 27.31	Per ct. 26.00
5401	Unicorn Dairy Ration, -----	J. H. Lavery's Sons, Franklin.	8.65	27.06	26.00
5673	Unicorn Dairy Ration, -----	Linesville Milling Co., Linesville.	9.22	27.25	26.00
		Average, -----	8.83	27.70	-----
4911	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Big Clover Mills Complete Ration, --	Francis Baker, Everett, --	8.78	27.38	24.60
5719	Peerless Dairy Ration, -----	Tyrone Milling Co., Ty- rone.	9.95	22.81	20.00
5375	CURTISS GRAIN CORPORATION, BUFFALO, N. Y. Curtiss Dairy Ration, -----	Smith Brothers, Bradford,	11.29	21.13	20.00
5350	THE DEWEY BROTHERS CO., BLANCHESTER, OHIO. Dewey's Ready Ration, -----	John S. Brown's Son, New Castle.	9.06	25.56	25.00
5070	THE ALBERT DICKINSON CO., CHICAGO, ILL. Dickinson's Dairy Feed, -----	The D. G. Bamford Milling Co., Midway.	9.43	25.69	24.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.68	Per ct. 4.50	Per ct. 9.60	Per ct. 10.00	\$4 10	Cottonseed meal, linseed meal, corn gluten meal, corn gluten feed, corn oil meal, brewers' grains, wheat bran with mill run screenings, hominy meal, salt.	As certified, -----	5645
5.10	5.50	8.92	11.00	3 70	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed (corn starch by-product with corn bran), barley feed, copra meal (cocoanut oil meal), bran, brewers' grains, salt.	Corn distillers' dried grains, cottonseed meal, linseed oil meal, hominy meal, corn gluten feed (corn starch by-product with corn bran), barley middlings, barley hulls, wheat bran, brewers' dried grains and salt..	5401
5.25	4.50	10.23	10.00	4 00	Cottonseed meal, linseed meal, corn gluten meal, corn gluten feed, corn feed meal, brewers' grains, wheat bran with mill run screenings, hominy meal, salt.	As certified, -----	5673
5.54	-----	9.47	-----	74 67			
4.18	4.50	17.80	15.00	3 40	Cottonseed meal, pure old process cocoanut meal, linseed meal, corn gluten, alfalfa meal and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, linseed oil meal, corn gluten feed, alfalfa meal and salt.	4911
4.53	5.00	12.57	12.00	70 60	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground bolted grain screenings, and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, old process cocoanut oil meal, linseed oil meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, malt sprouts and salt.	5719
3.89	3-4	10.36	9.50	3.75	Beet pulp, ground barley, linseed oil meal, cottonseed meal, corn gluten feed, wheat bran, ground grain screenings and salt.	As certified, -----	5375
5.98	6.00	10.22	10.00	3 40	Eagle corn distillers' dried grains, linseed oil meal, cottonseed meal, malt sprouts, wheat bran, wheat middlings, hominy feed and $\frac{1}{2}$ of 1% salt.	As certified, -----	5350
4.58	5.50	9.00	11.00	3 40	Corn gluten feed, brewers' dried grains, wheat bran, wheat middlings, cottonseed meal, linseed meal, hominy feed.	As certified, -----	5070

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4938	Dickinson's Dairy Feed, -----	Rochester Seed & Supply Co., Rochester.	Per ct. 9.40	Per ct. 24.53	Per ct. 24.00
		Average, -----	9.41	25.11	-----
5752	DIEHL, OMWAKE & DIEHL, CHAM- BERSBURG, PA. D. O. D. Dairy Feed, -----	Diehl, Omwake & Diehl, Chambersburg.	9.78	22.31	21.00
5754	D. O. D. 80% Dairy Feed, -----	Diehl, Omwake & Diehl, Chambersburg.	9.40	27.06	30.00
4995	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Anchor Dairy Feed, -----	W. H. Dunlap, Jr., Can- onsburg.	8.20	26.00	24.00
5074	Anchor Dairy Feed, -----	Johnston & Hamilton, Parnassus.	8.98	24.56	24.00
5208	Anchor Dairy Feed, -----	Ridgway Crist Mill, Ridg- way.	9.28	23.94	24.00
		Average, -----	8.82	24.81	-----
4713	EDGAR-MORGAN CO., MEMPHIS, TENN. Happy Cow Feed (Dry), -----	S. Book & Brothers, Quar- ryville.	9.86	25.19	22.00
5155	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Globe Creamery Feed, "The Milk Producer."	Haney-Frazier Milling & Elevator Co., Riverside.	9.41	25.56	23-25

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
5.48	5.50	9.20	11.00	\$3 50	Corn gluten feed, brewers' dried grains, wheat bran, wheat middlings, cottonseed meal, linseed meal, hominy feed and $\frac{1}{2}$ of 1% salt.	As certified, -----	4988
5.63	-----	9.10	-----	3 45			
5 03	6.50	11.45	14.00	70 00	Corn distillers' grains, distillers' rye grains, brewers' grains, alfalfa meal, wheat bran, corn chop, oil meal, cottonseed meal, oats chop.	Corn distillers' dried grains, distillers' rye grains, brewers' dried grains, alfalfa meal, wheat bran, corn chop, linseed oil meal, cottonseed meal, oat chop and malt sprouts.	5752
5.45	6.00	10.27	14.00	78 00	Corn distillers' grains, brewers' dried grains, cottonseed meal, oil meal, corn chop, bran and gluten.	Corn distillers' dried grains, brewers' dried grains, cottonseed meal, linseed oil meal, corn chop, wheat bran, corn gluten feed and malt sprouts	5754
5.08	4.00	15.77	12.00	65 00	Ground alfalfa, corn feed meal, cottonseed meal, corn gluten feed, old process linseed meal, wheat bran, wheat middlings, brewers' dried grains and 1% salt.	As certified, -----	4996
5.78	4.00	15.52	12.00	3 60	Ground alfalfa, corn feed meal, cottonseed meal, corn gluten feed, old process linseed meal, wheat bran, wheat middlings, brewers' dried grains and 1% salt.	As certified, -----	5074
4.93	4.00	10.60	12.50	3 80	Corn feed meal, cottonseed meal, corn gluten feed, old process linseed meal, wheat bran, wheat middlings, alfalfa meal, brewers' dried grains and 1% salt.	Cottonseed meal, corn gluten feed, wheat bran, wheat middlings, alfalfa meal, brewers' dried grains and salt.	5208
5.26	-----	13.96	-----	71 00			
5.58	4.00	12.37	16.00	3 40	Alfalfa meal, cocoanut meal, wheat bran, cottonseed meal, velvet bean feed and corn feed meal.	As certified, -----	4713
4.95	5-7	11.47	9.00	3 40	Corn distillers' dried grains, brewers' dried grains or malt sprouts, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-product, wheat bran, wheat middlings, salt $\frac{1}{2}$ of 1%.	As certified, -----	5155

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5655	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Ready Ration, -----	Erie Milling & Supply Co., Erie.	Per ct. 11.85	Per ct. 20.85	Per ct. 20.00
5446	INTERSTATE FEED ASSOCIATION, TOLEDO, OHIO. *Mormilk Ready Ration Dairy Feed,--	Boyd Milling Co., Sharon,	10.83	21.56	22.00
5674	*Mormilk Ready Ration Dairy Feed,--	Linesville Coal, Lime & Cement Co., Linesville.	8.36	22.63	22.00
5219	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Jem Cream Dairy Ration, -----	Timlin-Kelly & Co., Du- Averge, ----- Bois.	9.90 9.59	23.75 22.69	22.60 -----
5594	Jem Milk Maker, -----	R. T. Jones, North War- ren.	9.45	24.68	24.00
5593	Jem Rob Roy Dairy Feed, -----	R. T. Jones, North War- ren.	10.55	20.63	20.00
4906	CHAS A. KRAUSE MILLING CO., MILWAUKEE, WIS. Cream City Dairy Feed, -----	H. O. Andrews, Mapleton,	8.78	21.44	19.60

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.73	5.00	11.57	15.00	\$3 00	Cottonseed meal, re-cleaned ground clipped oat by-product, salt, ground cleaned grain screenings, linseed oil meal, wheat bran.	Cottonseed meal, re-cleaned ground clipped oat by-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	5685
3.40	6.00	12.32	12.00	3 25	Coarse flaky winter wheat bran, prime cottonseed meal, corn gluten feed, oat feed, wheat middlings, old process oil meal, white hominy.	As certified, -----	5446
4.54	5.00	14.40	12.00	3 75	Coarse flaky winter wheat bran, prime cottonseed meal, corn gluten feed, oat feed, wheat middlings, old process oil meal, white hominy.	Wheat bran, cottonseed meal, corn gluten feed, oat middlings, oat hulls, wheat middlings, old process linseed oil meal, hominy feed and toasted wheat feed.	5674
3.97	-----	13.36	-----	3 50			
5.35	6.00	7.92	10.00	3 50	Brewers' dried grains, cottonseed meal, old process linseed oil meal, corn gluten feed, wheat bran, wheat middlings with ground screenings not exceeding mill run, hominy feed, whole oats ground.	As certified, -----	5219
6.00	5.00	10.72	11.00	3 85	Corn distillers' dried grains, brewers' dried grains, cottonseed meal, corn feed meal, O. P. linseed oil meal, wheat bran, wheat middlings with ground screenings not exceeding mill run, corn gluten feed, hominy feed, $\frac{1}{2}$ of 1% salt.	As certified, -----	5594
4.25	4.00	9.45	9.00	3 60	Cottonseed meal, O. P. linseed oil meal, corn gluten feed, hominy feed, corn feed meal, wheat bran, wheat middlings with ground screenings not exceeding mill run, whole oats ground.	As certified, -----	5593
4.91	4.50	13.71	15.00	3 10	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains, old process linseed oil meal, oat meal mill by-product (oat hulls, oat middlings, oat shorts), wheat bran, wheat middlings, rye middlings with screenings not exceeding mill run, velvet bean feed and salt.	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains, old process linseed oil meal, oat middlings, oat hulls, oat shorts, wheat bran, wheat middlings, rye middlings with screenings, and salt.	4906

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4718	Cream City Dairy Feed, -----	H. J. Klingler & Co., But- ler.	Per ct. 7.86	Per ct. 25.19	Per ct. 19.00
5576	Cream City Dairy Feed, -----	L. Pollock, Kittanning, --	8.50	20.19	19.00
5693	Cream City Dairy Feed, -----	West Side Feed Co., Erie,	9.20	25.94	19.00
5759	Krause Dairy Feed, -----	Average, -----	8.58	23.19	-----
		Diehl, Omwake & Diehl, Chambersburg.	8.82	26.44	24.00
4792	Krause Dairy Feed, -----	J. F. Hogsett & Son, Uniontown.	8.42	25.31	24.00
4721	Krause Dairy Feed, -----	H. J. Klingler & Co., But- ler.	8.63	25.81	24.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.23	Per ct. 3.50	Per ct. 11.45	Per ct. 15.00	\$3 30	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains, old process linseed oil meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat middlings, rye middlings, with screenings not exceeding mill run, velvet bean feed and salt.	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains, old process linseed oil meal, oat middlings, oat hulls, oat shorts, wheat middlings, rye middlings with screenings, and salt.	4718
3.93	4.50	16.69	15.00	3 75	Cottonseed meal, brewers' grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and rye and wheat middlings with ground screenings not exceeding mill run, clipped oat by-products, malt sprouts and salt.	As certified, -----	5576
3.92	4.50	12.55	15.00	3 40	Cottonseed meal, brewers' grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and rye and wheat middlings with ground screenings not exceeding mill run, oat meal mill by-product (oat hulls, oat shorts, oat middlings), malt sprouts and salt.	Cottonseed meal, brewers' dried grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and rye and wheat middlings with ground screenings, oat middlings, oat hulls, oat shorts, malt sprouts, salt and small amount rice hulls.	5693
4.50	-----	13.60	-----	3 39			
5.18	5.00	12.50	13.00	75 00	Brewers' dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran, wheat middlings, 1% salt.	As certified, -----	5759
6.00	5.00	8.00	13.00	3 50	Corn distillers' dried grains, brewers' dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran, wheat middlings, 1% salt.	Corn distillers' dried grains, brewers' dried grains, corn gluten feed, old process linseed oil meal, cottonseed meal, hominy feed, corn germ meal, wheat bran, wheat middlings and salt.	4792
5.58	5.00	10.85	10.00	3 40	Corn distillers' dried grains, brewers' dried grains, corn gluten feed, O. P. linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with ground screenings not exceeding mill run.	As certified, -----	4721

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5233	Krause Dairy Feed, -----	H. H. Langdon, Altoona,	Per ct. 9.15	Per ct. 24.06	Per ct. 24.06
		Average, -----	8.73	25.41	-----
5250	THE LARROWE MILLING CO., DETROIT, MICH. Larro-Feed, -----	Emporium Milling Co., Emporium.	10.65	20.94	20.00
5453	Larro-Feed, -----	R. D. Foreman, Centre Hall.	10.12	21.31	20.00
5733	Larro-Feed, -----	Hetrick, Wilson & Co., In- diana.	10.12	20.94	20.00
4723	Larro-Feed, -----	H. J. Klingler & Co., But- ler.	10.16	23.63	20.00
5229	Larro-Feed, -----	Leibovitz Feed Mills, Al- toona.	9.82	22.06	20.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.98	Per ct. 5.00	Per ct. 11.07	Per ct. 13.00	\$3 50	Brewers' dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran, wheat middlings and 1% salt.	As certified, -----	5233
5.44	-----	10.76	-----	70 75			
3.35	3.00	11.90	14.00	3 65	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	5256
2.60	3.00	12.85	14.00	68 00	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and wheat middlings may contain "ground screenings not exceeding mill run."	As certified, -----	5453
4.25	3.00	10.60	14.00	3 85	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and wheat middlings may contain "ground screenings not exceeding mill run."	As certified, -----	5733
4.38	3.00	10.82	14.00	3 60	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	4723
3.28	5.00	11.20	14.00	3 50	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	5229

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4981	Larro-Feed, -----	J. O. Reed, Philipsburg,--	Per ct. 9.18	Per ct. 23.38	Per ct. 20.00
5762	Larro-Feed, -----	Walker Brothers, Chambersburg.	10.25	24.06	20.00
		Average, -----	10.04	22.33	-----
4994	Larrowe's Big 6 Complete Dairy Feed.	Canonsburg Milling Co., Canonsburg.	9.08	23.81	21.00
5167	Larrowe's Big 6 Complete Dairy Feed.	Danville Milling Co., Danville.	10.35	24.44	21.00
5061	Larrowe's Big 6 Complete Dairy Feed.	H. W. Walker Co., Somerset.	10.52	22.25	21.00
5691	Larrowe's Big 6 Complete Dairy Feed.	Washington Milling Co., Washington.	10.06	21.88	21.00
		Average, -----	10.00	23.10	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.35	Per ct. 3.00	Per ct. 11.82	Per ct. 14.00	\$3 50	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4981
3.83	3.00	11.42	14.00	79 00	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	5762
3.72	-----	11.51	-----	72 71			
5.60	4.00	7.95	12.00	65 00	Linseed oil meal, cottonseed meal, corn gluten feed, hominy feed, corn feed meal, rye middlings, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4994
7.00	4.00	7.92	12.00	3 35	Linseed oil meal, cottonseed meal, corn gluten feed, hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	5167
5.50	4.00	7.60	12.00	3 25	Linseed oil meal, cottonseed meal, corn gluten feed, hominy feed, corn feed meal, rye middlings, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	5061
5.43	4.00	8.60	12.00	81 00	Linseed oil meal, cottonseed meal, corn gluten feed, hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	5631
5.88	-----	8.01	-----	69 50			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5499	MARITIME TRADING CORP., BUF- FALO, N. Y. Bull Brand Dairy Ration, -----	Farmers' and Consumers' Commercial Union, Troy.	Per ct. 9.16	Per ct. 22.25	Per ct. 24.06
4822	C. H. McMAHAN, MILTON, PA. Milk & Muscle Producer, -----	C. H. McMahan, Milton,	7.33	25.13	23-25
5309	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mihimico Dairy Feed, -----	Miner-Hillard Milling Co., Plymouth.	9.70	21.69	17.00
5213	NOWAK MILLING CORP., BUF- FALO, N. Y. Domino Formerly Justice Dairy Feed,	DuBois Milling Co., Du- Bois.	7.91	24.25	24.00
5747	Domino Justice Creamery Feed, -----	J. H. Smith & Sons, Chambersburg.	9.61	20.79	20.00
5716	Domino Justice Creamery Feed, -----	H. E. Wolfe, Tyrone, ----	9.04	21.81	20.00
		Average, -----	9.32	21.36	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.00	Per ct. 5.00	Per ct. 11.10	Per ct. 12.00	\$3 50	Dried brewers' grain, dry malt grains, old process oil meal, cottonseed meal, corn gluten feed, hominy feed, cocoanut meal, wheat bran, wheat middlings, ground barley and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	5499
7.53	6-9	12.47	10-14	3 10	Brewers' dried grains, malt sprouts, cottonseed meal, hominy meal.	Brewers' dried grains, malt sprouts, cottonseed meal, hominy meal, cocoanut oil meal, corn distillers' dried grains and small amount whole weed seeds.	4822
6.25	5.00	6.82	9.00	3 60	Hominy feed, corn oil meal, buckwheat middlings, wheat middlings, wheat bran, cottonseed meal, brewers' grains, O. P. oil meal, salt.	As certified, -----	5309
4.43	4.00	12.75	14.00	3 45	Cocoanut oil meal, cottonseed meal, corn gluten feed, linseed oil meal, brewers' dried grains, clipped oat by-product, malt sprouts, ground and bolted grain screenings, wheat bran and salt $\frac{1}{2}$ of 1%.	Cocoanut oil meal, cottonseed meal, corn gluten feed, linseed oil meal, brewers' dried grains, oat middlings, oat hulls, oat shorts, ground and bolted grain screenings, wheat bran and salt.	5213
5.80	4.00	11.30	15.00	3 00	Cottonseed meal, linseed oil meal, brewers' dried grains, corn gluten feed, cocoanut oil meal, wheat bran, ground and bolted grain screenings, $\frac{1}{2}$ of 1% salt.	Cottonseed meal, linseed oil meal, brewers' dried grains, corn gluten feed, cocoanut oil meal, wheat bran, ground and bolted grain screenings, salt and small amount whole weed seeds.	5747
6.08	4.00	12.10	15.00	65 00	Cottonseed meal, linseed oil meal, brewers' dried grains, corn gluten feed, cocoanut oil meal, wheat bran, ground and bolted grain screenings, $\frac{1}{2}$ of 1% salt.	As certified, -----	5716
5.94	-----	11.70	-----	68 50			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
5078	PARK & POLLARD CO. OF ILLINOIS, CHICAGO, ILL. Stevens 44 Dairy Ration, -----	J. A. Hawk, New Kensington.	Per ct. 8.51	Per ct. 24.06	Per ct. 24.00
5390	Stevens 44 Dairy Ration, -----	Oil City Milling Co., Oil City.	9.27	24.88	24.00
5433	Stevens 44 Dairy Ration, -----	J. M. Porter, Sharon ----	, 9.42	26.81	24.90
5589	Stevens 44 Dairy Ration, -----	Warren City Mills, Warren.	9.73	24.25	24.00
4854	J. E. PRITTS, SCOTTTDALE, PA. *Pritts' Alfalfa Cow Feed, -----	Average, ----- J. E. Pritts, Scottdale, --	9.23 10.82	25.00 23.00	----- 26-24
4860	PURITY OATS CO., DAVENPORT, IOWA. Iowa Dairy Feed, -----	F. E. Painter, Mt. Pleasant.	8.64	18.31	16.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
6.60	5.00	11.77	14.00	\$3 50	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, co-eanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat mid- dlings, corn meal, salt.	Linseed oil meal, cot- tonseed meal, wheat bran with screenings, corn gluten feed, co-eanut oil meal, corn distillers' dried grains, brewers' dried grains, ground bar- ley, wheat middlings, hominy meal, corn germ meal, buck- wheat middlings, corn meal, malt sprouts and salt.	5078
5.90	5.00	12.32	14.00	3 00	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, co-eanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hom- iny meal, corn germ meal, buckwheat mid- dlings, corn meal, salt.	Linseed oil meal, cot- tonseed meal, wheat bran with screenings, corn gluten feed, co-eanut oil meal, corn distillers' dried grains, brewers' dried grains, ground bar- ley, wheat middlings, hominy meal, corn germ meal, buck- wheat middlings, corn meal, malt sprouts and salt.	5390
5.45	5.00	10.85	14.00	3 70	Oil meal, hominy meal, cottonseed meal, buck- wheat middlings, wheat bran, with mill run of screenings, gluten feed, corn meal, brewers' grains, cocoanut oil meal, pea meal, corn germ meal, distillers' grains, ground barley, wheat middlings and salt.	Linseed oil meal, hom- iny meal, cottonseed meal, wheat bran with screenings, corn gluten feed, corn meal, brewers' dried grains, cocoanut oil meal, pea meal, corn germ meal, distillers' dried grains, ground barley, wheat mid- dlings, malt sprouts and salt.	5433
5.00	5.00	11.62	14.00	4 15	Oil meal, hominy meal, cottonseed meal, buck- wheat middlings, wheat bran, with mill run of screenings, gluten feed, corn meal, brewers' grains, cocoanut oil meal, pea meal, corn germ meal, distillers' grains, ground barley, wheat middlings and salt.	Linseed oil meal, hom- iny meal, cottonseed meal, buckwheat mid- dlings, wheat bran with screenings, corn gluten feed, corn meal, brewers' dried grains, cocoanut oil meal, pea meal, corn germ meal, distillers' dried grains, ground barley, wheat mid- dlings, flax screen- ings and salt.	5589
5.74	-----	11.64	-----	3 59			
4.95	5-8	8.05	9.00	3 25	Wheat bran, wheat middlings, corn, alfalfa meal, cottonseed meal and oil meal.	As certified, -----	4854
5.33	4.50	11.92	9.00	3 25	Cottonseed meal, corn meal, hominy feed, brewers' dried grains, oat meal mill by-prod- uct (oat hulls, oat shorts, oat mid- dlings), and 1% of table salt.	As certified, -----	4860

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4933	Iowa Dairy Feed, -----	W. W. McCullough, West Bridgewater.	Per ct. 9.37	Per ct. 18.44	Per ct. 16.00
		Average, -----	8.70	18.38	-----
4773	THE QUAKER OATS COMPANY, CHICAGO, ILL. *The Big Q Dairy Ration, -----	D. O. Christman, Weissport.	8.41	23.50	21.00
5126	*The Big Q Dairy Ration, -----	John B. Curry's Sons, Palmyra.	9.70	22.50	21.00
5237	*The Big Q Dairy Ration, -----	Fay Milling Co., Hollidaysburg.	9.38	22.19	21.00
4803	*The Big Q Dairy Ration, -----	A. B. Harnish, Mechanicsburg.	8.08	23.75	21.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.91	Per ct. 4.50	Per ct. 12.36	Per ct. 9.60	\$3 10	Cottonseed meal, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat hulls, oat shorts, oat middlings), and 1% of table salt.	As certified, -----	4933
5.12	-----	12.14	-----	3 18			
4.68	6.00	10.20	10.50	3 25	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, old process linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt.	As certified, -----	4773
4.85	6.00	10.42	10.50	65 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, old process linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt.	As certified, -----	5126
4.43	5.00	10.25	11.00	67 50	Cottonseed meal, corn distillers' grains, corn gluten feed, old process linseed oil meal, wheat middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product, (oat middlings, oat hulls, oat shorts), 1% salt, hominy feed and yellow hominy feed.	As certified, -----	5237
4.35	6.00	10.42	10.50	63 50	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy corn meal by deguminator process with partial extraction of oil. White middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	4803

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5705	*The Big Q Dairy Ration, -----	W. H. Kepner, Newport,	Per ct. 8.93	Per ct. 23.06	Per ct. 21.00
5740	*The Big Q Dairy Ration, -----	Linus M. Lewis, Indiana,	9.71	24.06	21.00
5028	*The Big Q Dairy Ration, -----	Lewistown Ice & Storage Co., Lewistown.	9.51	22.06	21.00
5169	*The Big Q Dairy Ration, -----	Mausdale Roller Mills, Mausdale.	10.21	22.56	21.00
5521	*The Big Q Dairy Ration, -----	Preston & Jacquish, Troy,	9.56	23.00	21.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.88	Per ct. 5.00	Per ct. 9.22	Per ct. 11.00	\$3 90	Cottonseed meal, corn distillers' grains, corn gluten feed, old process linseed oil meal, wheat middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product, (oat middlings, oat hulls, oat shorts), 1% salt, hominy feed and yellow hominy feed.	As certified, -----	5705
4.38	6.00	10.37	10.50	3 50	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, old process linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	5740
5.08	6.00	10.50	10.50	3 15	Corn distillers' grains and solubles, hominy feed, yellow hominy feed, corn gluten feed, O. P. linseed oil meal, cottonseed meal, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt.	As certified, -----	5028
4.58	6.00	10.62	10.50	3 20	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, old process linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product (oat middlings, oat hulls, oat shorts), and 1% salt.	As certified, -----	5169
4.63	5.00	10.07	11.00	3 75	Cottonseed meal, corn distillers' grains, corn gluten feed, old process linseed oil meal, wheat middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt, hominy feed, yellow hominy feed.	As certified, -----	5521

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5333	*The Big Q Dairy Ration, -----	L. L. Rice, Carlisle, -----	Per ct. 9.94	Per ct. 23.06	Per ct. 21.00
5434	*The Big Q Dairy Ration, -----	J. B. Roux, Farrell, -----	9.63	21.44	21.00
5581	*The Big Q Dairy Ration, -----	Swanson Grocery Co., Kane.	10.06	21.69	21.00
5314	RALSTON PURINA' CO., INC., ST. LOUIS, MO.	Average, -----	9.43	22.74	-----
	Protena More Milk Dairy Feed, -----	Plymouth Mill & Grain Co., Plymouth.	12.83	17.58	16.50
5194	SMITH-PARRY & CO., MILWAU- KEE, WIS. Vitex Dairy Feed, -----	S. A. Fishburn, Penbrook,	10.19	24.63	24.00
5749	Vitex Dairy Feed, -----	Lake View Milling Co., Chambersburg.	8.67	25.81	24.00
		Average, -----	9.43	25.22	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.10	Per ct. 5.00	Per ct. 10.37	Per ct. 11.00	\$3 30	Cottonseed meal, corn distillers' grains, corn gluten feed, old process linseed oil meal, wheat middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt, hominy feed, yellow hominy feed.	As certified, -----	5333
4.35	5.00	9.45	11.00	3 50	Cottonseed meal, corn distillers' grains, corn gluten feed, old process linseed oil meal, wheat middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt, hominy feed, yellow hominy feed.	As certified, -----	5434
4.18	5.00	10.45	11.00	4 00	Cottonseed meal, corn distillers' grains, corn gluten feed, old process linseed oil meal, wheat middlings and wheat bran (with ground screenings not exceeding mill run), oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt, hominy feed, yellow hominy feed.	As certified, -----	5581
4.46	-----	10.19	-----	68 92			
3.16	3.50	10.99	12.00	2 75	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings and 1% salt.	Cottonseed meal, brewers' dried grains, ground wheat screenings, oat middlings, oat hulls, oat shorts, corn gluten feed, corn feed meal and salt.	5314
5.60	6.00	11.60	11.00	3 35	Distillers' dried grains (mainly from corn), brewers' dried grains, wheat bran, corn gluten feed, cottonseed meal, corn gluten meal, malt sprouts, hominy feed, corn oil meal (old process) linseed meal and salt.	As certified, -----	5194
5.93	6.00	11.70	11.00	77 00	Distillers' dried grains, brewers' dried grains, corn gluten feed, hominy feed, linseed oil meal, cottonseed meal, wheat bran, corn oil meal, malt sprouts and salt.	As certified, -----	5749
5.77	-----	1.65	-----	72 00			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5498	STRATTON-LADISH MILLING CO., MILWAUKEE, WIS. *True Value Dairy Feed, -----	Farmers' & Consumers' Commercial Union, Troy.	Per ct. 9.57	Per ct. 25.94	Per ct. 24.00
5640	THE UBIKO MILLING CO., CIN- CINNATI, OHIO. *Fourex Dairy Ration, -----	J. F. Malone, Sewickley,	8.71	21.56	20.00
4808	Union Grains, Biles Ready Dairy Ration.	Jos. Burkholder, Hummels- town.	8.35	26.81	24.00
5124	Union Grains, Biles Ready Dairy Ration.	Earley & Detweiler, Pal- myra.	9.65	24.88	24.00
5201	Union Grains, Biles Ready Dairy Ration.	S. A. Fishburn, Pen- brook.	9.16	26.88	24.00
4918	Union Grains, Biles Ready Dairy Ration.	H. H. Lysinger, Bedford,	8.38	27.19	24.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.83	Per ct. 5.00	Per ct. 8.97	Per ct. 10.00	\$3 50	Cottonseed meal, corn gluten, linseed meal, malt sprouts, ground oats, ground barley, hominy feed, copra oil meal, wheat bran (with screenings not exceeding mill run), salt.	As certified, -----	5498
3.95	4.00	10.40	12.00	85 00	Cottonseed meal, O. P. linseed meal, hominy meal, wheat bran and middlings, gluten feed, reground oat feed (oat hulls, oat shorts, oat middlings), rye middlings, malt sprouts and salt.	As certified, -----	5840
5.58	5.00	8.47	10.00	70 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, corn germ meal, corn gluten feed, brewers' dried grains, barley malt sprouts, one-half per cent. of fine table salt.	As certified, -----	4808
5.65	5.00	9.92	10.00	69 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, corn germ meal, corn gluten feed, brewers' dried grains, barley malt sprouts, one-half per cent. of fine table salt.	As certified, -----	5124
4.93	5.00	9.97	10.00	-----	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, coconut oil meal, corn gluten feed, brewers' dried grains, barley malt sprouts, $\frac{1}{2}$ of 1% fine table salt.	Corn distillers' dried grains, cottonseed meal, old process linseed oil meal, wheat middlings, wheat bran, hominy meal, corn gluten feed, brewers' dried grains, barley malt sprouts, salt.	5201
5.50	5.00	9.87	10.00	3 70	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, coconut oil meal, corn gluten feed, brewers' dried grains, barley malt sprouts, $\frac{1}{2}$ % fine table salt.	Corn distillers' dried grains, cottonseed meal, old process linseed oil meal, wheat middlings, wheat bran, hominy meal, corn gluten feed, brewers' dried grains, barley malt sprouts and salt.	4918

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4841	Union Grains, Biles Ready Dairy Ration.	McFarland Supply Co., Greensburg.	Per ct. 7.70	Per ct. 26.50	Per ct. 24.00
5443	Union Grains, Biles Ready Dairy Ration.	D. B. Webber, Greenville,	9.44	26.50	24.00
	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND.	Average, -----	8.77	26.46	-----
5189	Calumet Dairy Feed, -----	O. S. Ebersole, Penbrook,	9.05	20.75	20.00
4740	Calumet Dairy Feed, -----	Geo. Ifft & Sons, Evans City.	8.19	22.75	20.00
5019	Calumet Dairy Feed, -----	Weaver & Berkey, Windber.	9.18	21.56	20.00
	PROPRIETARY DAIRY FEEDS WITH MOLASSES.	Average, -----	8.86	21.69	-----
4798	AMERICAN HOMINY CO., INDIANAPOLIS, IND. Homco Dairy Feed, -----	M. C. Dietz & Son, Mechanicsburg.	9.01	21.56	20.00
5014	AMERICAN MILLING CO., PEO, RIA, ILL. *Amco Dairy Feed, -----	J. H. Hershberger & Son, Johnstown.	8.49	29.38	25.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.13	Per ct. 5.00	Per ct. 7.80	Per ct. 10.00	\$3 50	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, corn germ meal, corn gluten feed, brewers' dried grains, barley malt sprouts, $\frac{1}{2}$ of 1% fine table salt.	As certified, -----	4841
5.92	5.00	4.77	10.00	3 75	Corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat, bran, hominy meal, cocoanut oil meal, corn gluten feed, brewers' dried grains, barley malt sprouts, $\frac{1}{2}$ % fine table salt.	Cottonseed meal, old process linseed oil meal, wheat middlings, wheat bran, hominy meal, corn gluten feed, brewers' dried grains, barley malt sprouts and salt.	5443
5.62	-----	8.46	-----	71 60			
3.80	4.60	14.67	14.80	3 00	Cottonseed meal, gluten feed, brewers' dried grains, bran, ground corn, ground recleaned wheat screenings, ground clipped oat by-product and salt.	As certified, -----	5189
4.18	4.60	14.81	14.80	60 00	Cottonseed meal, gluten feed, brewers' dried grains, bran, ground corn, ground recleaned wheat screenings, ground clipped oat by-product and salt.	Cottonseed meal, corn gluten feed, brewers' dried grains, wheat bran, ground corn, ground recleaned wheat screenings, oat middlings, oat hulls, oat shorts and salt.	4740
3.88	4.60	14.60	14.80	3 10	Cottonseed meal, gluten feed, brewers' dried grains, bran, ground corn, ground recleaned wheat screenings, ground clipped oat by-product and salt.	Cottonseed meal, corn gluten feed, brewers' dried grains, wheat bran, ground corn, ground recleaned wheat screenings, oat middlings, oat hulls, oat shorts and salt.	5019
3.95	-----	14.69	-----	60 67			
4.30	4.00	12.05	14.00	62 00	Velvet bean meal, alfalfa and molasses, bran, cottonseed meal and linseed meal.	Alfalfa meal, wheat bran, cottonseed meal, linseed oil meal, velvet bean feed and molasses.	4798
5.58	5.00	12.77	16.00	3 40	Molasses, clipped oat by-product, corn distillers' dried grains, linseed meal, cottonseed meal, cocoanut oil meal and salt.	Molasses, corn distillers' dried grains, linseed oil meal, cottonseed meal, cocoanut oil meal, oat middlings, oat hulls, oat shorts, and salt.	5014

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4847	Sucrene Dairy Feed, -----	Irwin Flour Mills, Irwin,--	Per ct. 12.21	Per ct. 19.74	Per ct. 16.50
5632	Sucrene Dairy Feed, -----	Keystone Commercial Co., McKeesport.	11.28	14.85	16.50
5460	Sucrene Dairy Feed, -----	E. C. Noll, Lewisburg, --	13.18	19.00	16.50
5002	Sucrene Dairy Feed, -----	Geo. Reuton & Co., Cas- tle Shannon.	13.57	21.23	16.50
5656	Sucrene Dairy Feed, -----	Washington Grain & Feed Co., Washington.	11.60	15.05	16.50
	ARCADY FARM MILLING CO., RONDOUT, ILL.	Average, -----	12.36	17.97	-----
5441	Arcady Dairy Feed, -----	Mathers Brothers, Green- ville.	9.36	20.94	16.00
5675	Arcady Dairy Feed, -----	Nickel Plate Flour Mills, Erie.	10.92	15.69	16.00
		Average, -----	10.14	18.32	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.49	3.50	13.49	14.00	\$2 70	Cottonseed meal, corn distillers' dried grains and solubles, corn germ meal, ground and bolted grain screenings, clipped oat by-product, cocoanut meal, molasses, calcium carbonate and salt.	Cottonseed meal, ground and bolted grain screenings, clipped oat by-product, cocoanut oil meal, molasses, calcium carbonate and salt.	4847
3.51	3.50	14.76	14.00	3.15	Molasses, ground and bolted grain screenings, clipped oat by-product, corn feed meal, ground barley, cottonseed meal, cocoanut meal, calcium carbonate and salt.	Molasses, ground and bolted grain screenings, corn feed meal, ground barley, cottonseed meal, cocoanut oil meal, oat middlings, oat hulls, oat shorts, calcium carbonate, salt.	5632
4.17	3.50	11.43	14.00	2 80	Cottonseed meal, ground barley, corn feed meal, ground and bolted grain screenings, clipped oat by-product, cocoanut meal, molasses, calcium carbonate and salt.	Cottonseed meal, ground barley, corn feed meal, ground and bolted grain screenings, clipped oat by-product, cocoanut oil meal, flax plant refuse, molasses, calcium carbonate, salt and small amount whole weed seeds.	5460
4.77	3.50	12.50	14.00	54 00	Molasses, ground bolted grain screenings, clipped oat by-product, corn feed meal, ground barley, cottonseed meal, cocoanut meal, calcium carbonate and salt.	As certified, -----	5002
3.80	3.50	14.08	14.00	3 10	Molasses, ground bolted grain screenings, clipped oat by-product, corn feed meal, ground barley, cottonseed meal, cocoanut meal, calcium carbonate and salt.	Molasses, ground and bolted grain screenings, corn feed meal, ground barley, cottonseed meal, cocoanut oil meal, oat middlings, oat hulls, oat shorts, calcium carbonate and salt.	5656
4.15	-----	13.25	-----	57 80			
3.93	3.50	12.27	15.00	2.65	Cocoa shell meal, pure process cocoanut meal, linseed oil meal, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, salt $\frac{1}{2}$ of 1%.	Cocoa shell meal, pure old process cocoanut oil meal, linseed oil meal, cottonseed meal, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, brewers' dried grains, molasses and salt.	5441
4.56	4.00	10.87	15.00	48 00	Cottonseed meal, pure old process cocoanut meal, dried grains from barley malt and corn, cleaned, ground and bolted clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5675
4.25	-----	11.57	-----	50 50			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4829	BLANK & GOTTSHALL, SUN-BURY, PA. B. & G.'s Dairy Food, -----	Blank & Gottshall, Sun-bury.	Per ct. 8.75	Per ct. 21.56	Per ct. 20.00
5508	CHAPIN & CO., HAMMOND, IND. Lactola Dairy Feed, -----	F. P. Case & Son, Troy,---	11.56	18.55	16.50
5198	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Dairy Ration, ----	S. A. Fishburn, Penbrook,	12.02	18.34	16.00
5743	Clover Leaf Mills Dairy Ration, ----	J. H. Smith & Sons, Chambersburg.	10.66	17.32	16.00
5322	Clover Leaf Mills Dairy Ration, ----	W. S. Stuart, Carlisle, ---	13.09	16.99	16.00
		Average, -----	11.92	17.55	-----
5711	Master Grain Ration, -----	Duncannon Flouring Mill Co., Duncannon.	11.41	24.28	24.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.83	Per ct. 5.00	Per ct. 11.65	Per ct. 10.00	\$60 00	Corn bran, wheat bran, dried brewers' grains, buckwheat middlings, gluten feed, alfalfa meal, molasses, linseed meal, cottonseed meal, oats chop and $\frac{1}{2}$ of 1% salt.	Corn bran, wheat bran, brewers' dried grains, buckwheat middlings, corn gluten feed, alfalfa meal, linseed oil meal, cottonseed meal, oat chop, malt sprouts and molasses.	4829
3.55	3.00	9.75	12.00	2 75	Cottonseed meal, corn gluten meal, cane molasses, brewers' grains, cocoanut meal, yeast dried grains, ivory nut meal, salt.	As certified, -----	5508
4.72	3.50	12.99	15.00	2 65	Cottonseed meal, corn gluten meal, malt sprouts, brewers' dried grains, cleaned ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, brewers' dried grains, cleaned ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oat by-product, molasses and salt.	5198
4.63	4.00	12.21	15.00	3 10	Cottonseed meal, pure old process cocoanut meal, linseed meal, cleaned, ground and bolted grain screenings, ground and bolted clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, pure old process cocoanut meal, linseed oil meal, cleaned ground and bolted grain screenings, ground and bolted clipped oat by-product, brewers' dried grains, malt sprouts, molasses and small amount small whole weed seeds.	5743
4.30	4.00	10.71	15.00	50 00	Cottonseed meal, pure old process cocoanut meal, linseed meal, cleaned, ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, pure old process cocoanut oil meal, cleaned ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oat by-product, malt sprouts, corn distillers' dried grains, molasses, salt and small amount small whole weed seeds.	5322
4.57	-----	11.97	-----	55 00			
5.40	5.00	9.40	10.00	3 80	Molasses, dried grains from barley malt and corn, wheat bran, wheat middlings, pure old process linseed meal, corn gluten feed, cocoanut.	As certified, -----	5711

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5745	Master Grain Ration, -----	J. H. Smith & Sons, Chambersburg.	Per ct. 11.20	Per ct. 25.31	Per ct. 24.00
		Average, -----	11.30	24.77	-----
4909	Peerless Milk Ration, -----	Francis Baker, Everett, --	9.26	23.31	20.00
4796	Peerless Milk Ration, -----	M. C. Deitz & Son, Me- chanicsburg.	11.80	19.61	20.00
5712	Peerless Milk Ration, -----	Duncannon Flouring Mill Co., Duncannon.	11.64	19.28	20.00
5697	Peerless Milk Ration, -----	Franklin Milling Co., Swineford.	11.71	20.15	20.00
5168	Peerless Milk Ration, -----	Mausdale Roller Mills, Mausdale.	14.20	20.07	20.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.74	Per ct. 5.00	Per ct. 9.03	Per ct. 10.00	\$4 25	Molasses, dried grains from barley, malt and corn, wheat bran, standard middlings, linseed meal (old process), corn gluten feed, cocoanut oil meal (old process), cottonseed meal and $\frac{1}{2}$ of 1% fine table salt.	As certified, -----	5745
5.07	-----	9.24	-----	4 03			
5.55	5.00	13.65	12.00	3 15	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, molasses, $\frac{1}{2}$ of 1% salt.	Cottonseed meal, linseed oil meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, cocoa shell meal, malt sprouts, molasses, salt and small amount small whole weed seeds.	4909
5.30	4.00	10.33	12.00	62 00	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, molasses, $\frac{1}{2}$ of 1% salt.	Cottonseed meal, pure old process cocoanut oil meal, linseed oil meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, cocoa shell meal, molasses, salt and small amount small whole weed seeds.	4796
4.40	5.00	12.98	12.00	3 55	Cottonseed meal, pure old process cocoanut meal, linseed meal, dried grains from barley malt and corn, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, molasses, and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, pure old process cocoanut oil meal, linseed oil meal, dried grains from barley malt and corn, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, malt sprouts, molasses and salt.	5712
4.45	5.00	12.00	12.00	65 00	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	5697
5.17	5.00	10.14	12.00	3 20	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, molasses, $\frac{1}{2}$ of 1% salt.	Cottonseed meal, pure old process cocoanut oil meal, linseed oil meal, brewers' dried grains, barley, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, molasses and salt.	5168

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4759	Peerless Milk Ration, -----	John G. Seager's Sons, Hazleton.	Per ct. 11.63	Per ct. 23.20	Per ct. 20.00
5744	Peerless Milk Ration, -----	J. H. Smith & Sons, Chambersburg.	11.08	22.01	20.00
		Average, -----	11.62	21.09	-----
4797	Sweet Clover Mills Dairy Ration, ---	M. C. Deitz & Son, Mechanicsburg.	12.53	24.22	24.00
5742	Sweet Clover Mills Dairy Ration, ---	J. H. Smith & Sons, Chambersburg.	11.20	23.13	24.00
5323	Sweet Clover Mills Dairy Ration, ---	W. S. Stuart, Carlisle, --	11.63	27.03	24.00
		Average, -----	11.82	24.81	-----
5137	EXCELLO FEED MILLING CO., ST. JOSEPH, MO. Reliable Dairy Feed, -----	J. E. Dubbs, Bellefonte,	14.69	17.04	17.50
5152	GLOBE ELEVATOR CO., BUFFA- LO, N. Y. Anchor Dairy Feed, -----	Haney-Frazier Milling & Elevator Co., Riverside.	14.23	11.32	13.50
5101	Anchor Dairy Feed, -----	Jefferson Flour & Feed Co., Punxsutawney.	16.74	11.27	13.50
		Average, -----	15.51	11.30	-----
4865	GRAIN BELT MILLS CO., SOUTH ST. JOSEPH, MO. "Red D" Dairy Feed, -----	Braddock Feed & Supply House, Braddock.	15.17	18.87	16.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.41	Per ct. 5.00	Per ct. 12.32	Per ct. 12.00	\$3 00	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, molasses, $\frac{1}{2}$ of 1% salt.	Cottonseed meal, linseed oil meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, molasses and salt.	4759
5.56	5.00	11.35	12.60	3 75	Cottonseed meal, pure old process cocoanut meal, linseed meal, dried grains from barley malt and corn, ground and bolted clipped oat by-product, cleaned, ground and bolted grain screenings, molasses, and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, pure old process cocoanut oil meal, linseed oil meal, dried grains from barley malt and corn, malt sprouts, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, molasses and salt.	5744
5.12	-----	11.82	-----	65 71			
3.79	4.50	11.32	13.50	68 00	Cottonseed meal, pure old process cocoanut meal, linseed meal, corn gluten feed, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4797
4.14	4.50	12.89	12.50	4 25	Cottonseed meal, pure old process cocoanut meal, linseed meal, corn gluten feed, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5742
4.55	4.50	12.26	13.50	66 00	Cottonseed meal, pure old process cocoanut meal, linseed meal, corn gluten feed, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5323
4.16	-----	12.15	-----	73 00			
2.34	3.00	14.52	13.50	60 00	Alfalfa meal, cottonseed meal, gluten feed, ground grain screenings, salt and molasses.	As certified, -----	5137
2.23	3.00	11.26	15.00	2 50	Cottonseed meal, corn gluten feed, linseed oil meal, malt sprouts, ground grain screenings, molasses, salt $\frac{1}{2}$ of 1%.	Cottonseed meal, corn gluten feed, linseed oil meal, malt sprouts, ground grain screenings, oat middlings, oat hulls, molasses and salt.	5152
3.66	3.00	9.29	15.00	2 90	Cottonseed meal, linseed oil meal, corn gluten feed, ground grain screenings and clipped oat by-product, cane molasses, salt $\frac{1}{2}$ of 1%.	As certified, -----	5101
2.95	-----	10.27	-----	2 70			
3.73	4.00	10.59	15.00	3 00	Cottonseed meal, ground wheat screenings, alfalfa meal, molasses, corn feed meal and about $\frac{1}{2}$ of 1% salt.	As certified, -----	4865

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4993	"Red D" Dairy Feed, -----	F. W. Scott, Hays, -----	Per ct. 16.18	Per ct. 17.04	Per ct. 16.00
		Average, -----	15.67	17.96	-----
5649	HALES & EDWARDS CO., CHICAGO, ILL. Gold Flake Dairy Feed, -----	Russell Brothers, Washington.	13.38	15.58	16.00
4925	Gold Flake Dairy Feed, -----	Stager Co., New Brighton,	13.63	15.98	16.00
4765	Gold Flake Dairy Feed, -----	Stemler Brothers, East Mauch Chunk.	14.93	16.61	16.00
		Average, -----	13.98	16.06	-----
5383	THE H.-O. COMPANY, BUFFALO, N. Y. Milk Feed with Molasses, -----	Clyde D. Duffee, Oil City,	11.72	16.13	14.00
5384	Read the Tag Dairy Feed, -----	Clyde D. Duffee, Oil City,	11.22	20.63	26.00
4726	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. *International Cattle Feed, -----	P. J. Oesterling & Son, Butler.	12.28	27.02	25.00
5686	International Diamond Dairy Feed,	Erie Milling & Supply Co., Erie.	10.97	24.42	24.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
3.71	4.00	11.54	15.00	\$3 00	Cottonseed meal, ground wheat screenings, alfalfa meal, molasses, corn feed meal and about $\frac{1}{2}$ of 1% salt.	Cottonseed meal, ground wheat screenings, alfalfa meal, molasses, salt, and small amount small whole weed seeds.	4998
3.72	-----	11.06	-----	3.00		.	
3.87	3.50	10.50	15.00	2 75	Cottonseed meal, corn gluten feed, linseed oil meal, clipped oat by-product, ground and bolted wheat, barley and Kaffir screenings, molasses and salt.	Cottonseed meal, corn gluten feed, linseed oil meal, clipped oat by-product, ground and bolted wheat, barley and Kaffir screenings, molasses, salt and small amount small weed seeds.	5649
3.73	3.50	10.66	15.00	2 85	Cottonseed meal, corn gluten feed, linseed oil meal, clipped oat by-product, ground and bolted wheat, barley and Kaffir screenings, molasses and salt.	As certified, -----	4925
2.61	3.50	7.51	15.00	2 95	Cottonseed meal, corn gluten feed, linseed oil meal, clipped oat by-product, ground and bolted wheat, barley and Kaffir screenings, molasses and salt.	As certified, -----	4765
3.40	-----	9.55	-----	2 85			
3.90	4.00	10.37	12.00	3 25	Wheat midds, cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, $\frac{1}{2}$ of 1% salt, clipped oat by-product, linseed oil meal.	Wheat middlings, cottonseed meal, oat middlings, oat hulls, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, linseed oil meal, molasses and salt.	5383
4.03	5.00	7.87	9.50	3 60	Cottonseed meal, corn gluten feed, linseed oil meal, corn meal, hominy feed, ground barley, wheat midds (with mill run screenings), molasses, salt $\frac{3}{4}$ of 1%, oat hulls and oat shorts not over 225 lbs. per ton.	As certified, -----	5384
7.11	5.00	8.10	10.60	3 30	Cottonseed meal, old process linseed oil meal, grain screenings, molasses and salt.	As certified, -----	4726
5.48	5.00	11.24	10.60	3 75	Corn gluten feed, wheat bran, linseed oil meal, cottonseed meal, molasses, ground and bolted screenings from wheat, salt.	Corn gluten feed, wheat bran, linseed oil meal, cottonseed meal, ground and bolted screenings from wheat, oat hulls, molasses, salt and small amount small whole weed seeds.	5686

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5146	*International Planters Dairy Feed,---	J. S. Waite & Co., Bellefonte.	Per ct. 10.92	Per ct. 23.19	Per ct. 22.00
5148	International Ready Ration, -----	J. S. Waite & Co., Bellefonte.	11.97	20.14	20.00
5503	International Special Dairy Feed,----	Farmers' & Consumers' Commercial Union, Troy.	12.58	14.78	15.00
5147	International Special Dairy Feed,----	J. S. Waite & Co., Bellefonte.	11.76	16.97	15.60
	INTERSTATE FEED ASSOCIATION, DETROIT, MICH.	Average, -----	12.17	15.88	-----
4725	*Mormilk Dairy Feed, -----	P. J. Oesterling & Son, Butler.	11.00	21.45	20.00
4908	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Dairy Feed, -----	City Flour & Feed Mills, Huntingdon.	15.77	18.38	16.00
5505	Badger Dairy Feed, -----	Farmers' & Consumers' Commercial Union, Troy.	15.18	16.98	16.50
5458	Badger Dairy Feed, -----	Mifflinburg Supply Co., Mifflinburg.	15.38	16.18	16.50
5468	Badger Dairy Feed, -----	Shamokin Milling Co., Shamokin.	14.89	16.92	16.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	Per ct.			
4.58	3.50	15.23	18.50	\$70 00	Cottonseed feed, linseed oil meal, molasses, salt.	As certified, -----	5146
5.33	5.00	16.49	15.00	65 00	Cottonseed meal, molasses, ground clipped oat by-products, salt, ground cleaned grain screenings, wheat bran and linseed oil meal.	As certified, -----	5148
5.37	4.50	11.02	15.00	2 30	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings, old process linseed oil meal, wheat bran, corn gluten feed.	Cottonseed meal, ground clipped oat by-product, ground cleaned grain screenings, old process linseed oil meal, wheat bran, corn gluten feed, molasses, salt and small amount small whole weed seeds.	5503
5.10	4.50	11.99	14.00	55 00	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings.	Cottonseed meal, ground clipped oat by-product, ground cleaned grain screenings, linseed oil meal, molasses, salt and small amount small whole weed seeds.	5147
5.24	-----	11.50	-----	50 50			
5.31	4.50	8.57	15.00	2 90		Cottonseed meal, wheat bran, linseed oil meal, ground grain screenings, ground clipped oat by-product, molasses, salt and small amount small whole weed seeds.	4725
4.00	3.00	16.49	15.00	55 00	Cottonseed meal, ground and bolted screenings from wheat, oats and flax, molasses and salt.	Cottonseed meal, ground and bolted screenings from wheat, oats and flax, molasses, salt and small amount small whole weed seeds.	4908
4.24	3.50	17.96	15.00	2 35	Cottonseed meal, alfalfa meal, ground and bolted screenings from wheat, oats and flax, salt and molasses.	Cottonseed meal, alfalfa meal, ground and bolted screenings from wheat, oats and flax, flax plant refuse, molasses, salt and small amount small whole weed seeds.	5505
3.87	3.50	18.29	15.00	3 25	Cottonseed meal, alfalfa meal, ground and bolted screenings from wheat, oats and flax, salt and molasses.	Cottonseed meal, alfalfa meal, ground and bolted screenings from wheat, oats and flax, flax plant refuse, molasses, salt and small amount small whole weed seeds.	5458
4.13	3.50	19.63	15.00	2 85	Cottonseed meal, alfalfa meal, ground and bolted screenings from wheat, oats and flax, salt and molasses.	Cottonseed meal, alfalfa meal, ground and bolted screenings from wheat, oats and flax, flax plant refuse, molasses and salt.	5465

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5271	Badger Dairy Feed, -----	C. F. & W. H. Strickler Milling Co., Lebanon.	Per ct. 16.37	Per ct. 18.20	Per ct. 16.50
		Average, -----	15.51	17.33	-----
5118	Badger Sweet Cud Dairy Feed, ----	Earley & Detweiler, Palmyra.	10.05	24.81	24.00
4876	Badger Sweet Cud Dairy Feed, -----	Johnston & Smith, Wilkinsburg.	8.34	27.06	24.00
5459	Badger Sweet Cud Dairy Feed, ----	Mifflinburg Supply Co., Mifflinburg.	12.46	24.19	24.00
4895	Badger Sweet Cud Dairy Feed, ----	Walton Brothers, Philadelphia.	11.36	26.89	24.00
5695	Badger Sweet Cud Dairy Feed, ----	West Side Feed Co., Erie,	11.87	23.96	24.00
		Average, -----	10.81	25.38	-----
4989	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Lake Shore Dairy Feed, -----	Canonsburg Milling Co., Canonsburg.	14.05	12.64	17.00
5643	Lake Shore Dairy Feed, -----	C. S. Hunter Co., Washington.	12.26	19.34	17.00
5405	Lake Shore Dairy Feed, -----	New Model Milling Co., Oil City.	11.61	12.13	17.00
		Average, -----	12.64	14.70	-----
5331	LANCASTER MILL & ELEVATOR CO., LANCASTER, PA. Lancaster Dairy Feed, -----	William A. Nickles, Shipensburg.	11.57	19.85	20.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.99	Per ct. 3.50	Per ct. 18.29	Per ct. 15.00	\$2 65	Cottonseed meal, alfalfa meal, ground and bolted screenings, fine flax plant by-product, molasses and salt.	Cottonseed meal, alfalfa meal, ground and bolted screenings, flax plant by-product, molasses, salt and small amount whole weed seeds.	5271
4.05	-----	18.13	-----	75 40			
4.83	3.75	16.01	15.00	65 00	Corn gluten feed, brewers' dried grains, cottonseed meal, alfalfa, molasses and salt.	Corn gluten feed, cottonseed meal, alfalfa meal, linseed oil meal, flax plant refuse, molasses and salt.	5118
4.15	3.75	15.00	15.00	3 50	Corn gluten feed, brewers' dried grains, cottonseed meal, alfalfa, molasses and salt.	As certified, -----	4876
3.17	3.75	12.13	15.00	3 70	Corn gluten feed, brewers' dried grains, O. P. linseed oil meal, cottonseed meal, alfalfa, molasses and salt, malt sprouts.	As certified, -----	5459
3.85	3.75	14.78	15.00	63 00	Cottonseed meal, alfalfa, gluten feed, brewers' grains, molasses and salt.	Cottonseed meal, alfalfa meal, corn gluten feed, brewers' dried grains, flax plant refuse, molasses and salt.	4895
3.28	3.75	11.58	15.00	3 75	Corn gluten feed, brewers' dried grains, malt sprouts, cottonseed meal, alfalfa, molasses and salt.	Corn gluten feed, brewers' dried grains, malt sprouts, cottonseed meal alfalfa meal, flax plant refuse, molasses and salt.	5695
3.86	-----	13.90	-----	69 40			
3.45	3.00	7.53	11.00	50 00	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran screenings, sugar and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, distillers' dried grains, malt sprouts, corn, corn bran, grain screenings, brewers' dried grains, clipped oat by-product, oats, molasses and salt.	4989
2.62	3.00	13.66	11.00	3 00	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran, screenings, molasses.	Cottonseed meal, distillers' dried grains, malt sprouts, corn, corn bran, grain screenings, brewers' dried grains, rice hulls and molasses.	5643
2.77	3.00	13.40	11.00	2 90	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran screenings, sugar and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, distillers' dried grains, corn, corn bran, grain screenings, oat hulls, oats, molasses and salt.	5405
2.95	-----	11.53	-----	56 00			
5.11	4.00	11.20	14.00	60 00	Alfalfa meal, reground grain screenings, corn gluten feed, oil meal, clipped oat by-product, cottonseed meal, cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5331

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5601	Lancaster Dairy Feed, -----	Walton Brothers, Philadelphia.	Per ct. 12.11	Per ct. 18.70	Per ct. 20.00
		Average, -----	11.84	19.31	-----
6746	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Butterine Dairy Feed, -----	J. H. Smith & Sons, Chambersburg.	11.95	17.04	17.00
5267	Domino Formerly Butterine Dairy Feed.	Lebanon Milling Co., Lebanon.	15.06	18.23	17.00
		Average, -----	13.50	17.94	-----
5125	TRE QUAKER OATS CO., CHICAGO, ILL. *Quaker Dairy Feed with Molasses, --	John B. Curry's Sons, Palmyra.	11.44	17.06	16.00
5737	*Quaker Dairy Feed with Molasses, --	Linus M. Lewis, Indiana,	11.89	15.97	16.00
4939	*Quaker Dairy Feed with Molasses, --	Rochester Seed & Supply Co., Rochester.	13.01	17.22	16.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.58	Per ct. 4.00	Per ct. 11.14	Per ct. 10.00	\$62 00	Alfalfa meal, reground grain screenings, corn gluten feed, oil meal, clipped oat by-product, cottonseed meal, cane molasses and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, reground grain screenings, corn gluten feed, linseed oil meal, clipped oat by-product, cottonseed meal, wheat bran, wheat middlings, malt sprouts, cocoanut oil meal, molasses, salt and small amount small whole weed seeds.	5691
5.85	-----	11.17	-----	61 00			
4 30	3.50	10.61	15.00	3 10	Cottonseed meal, corn gluten feed, brewers' dried grains, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, corn gluten feed, brewers' dried grains, ground and bolted grain screenings, oat middlings, oat hulls, oat shorts, molasses, salt, and small amount small whole weed seeds.	5746
5.09	2.50	11.18	14.00	2 75	Cottonseed meal, linseed oil meal, cocoanut oil meal, brewers' dried grains, malt sprouts, ground and bolted wheat screenings, clipped oat by-product, cocoa shell meal, $\frac{3}{4}$ of 1% salt and molasses.	Cottonseed meal, linseed oil meal, cocoanut oil meal, brewers' dried grains, malt sprouts, ground and bolted wheat screenings, clipped oat by-product, molasses, salt, and small amount small whole weed seeds.	5267
4.70	-----	10.89	-----	2 93			
3.92	4.50	12.67	16.00	50 00	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{3}{4}$ of 1% salt, calcium phosphate, velvet bean feed.	Molasses, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, velvet bean feed, calcium phosphate, salt and small amount whole weed seeds.	5125
3.99	4.50	14.31	16.00	3 25	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{3}{4}$ of 1% salt, calcium phosphate, velvet bean feed.	Molasses, corn distillers' dried grains and solubles, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, velvet bean feed, flax plant refuse, calcium phosphate, salt and small amount small whole weed seeds.	5737
4.30	5.50	13.73	16.00	3 00	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt, palm kernel oil meal, tricalcium phosphate.	Molasses, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, velvet bean feed, tri calcium phosphate, salt, and small amount small whole weed seeds.	4930

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5715	*Quaker Dairy Feed with Molasses, --	The Spruce Creek Milling Co., Spruce Creek.	Per ct. 9.95	Per ct. 17.19	Per ct. 16.00
5634	*Quaker Dairy Feed with Molasses, --	West Side Feed Co., Erie,	11.76	16.42	16.00
	RALSTON PURINA CO., BUFFALO, N. Y.	Average, -----	11.61	16.77	-----
5329	Protena Dairy Feed, -----	A. L. Heckman, Shippensburg.	13.95	17.50	16.50
5325	Protena Dairy Feed, -----	W. S. Stuart, Carlisle, ---	12.20	20.27	16.50
		Average, -----	13.07	18.89	-----
5166	Purina Cow Chow Feed, -----	Danville Milling Co., Danville.	13.90	26.40	24.00
5185	Purina Cow Chow Feed, -----	O. S. Ebersole, Penbrook,	15.43	24.38	24.00
5578	Purina Cow Chow Feed, -----	Wm. Gates Estate, Kittanning.	10.05	26.56	24.00
4901	Purina Cow Chow Feed, -----	Huntingdon Milling Co., Huntingdon.	12.40	27.41	24.00
5210	Purina Cow Chow Feed, -----	Ridgway Grist Mill, Ridgway.	9.46	27.06	24.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.70	Per ct. 4.50	Per ct. 13.83	Per ct. 16.00	\$3 00	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-products (oat middlings, oat hulls, oat shorts), $\frac{3}{4}$ of 1% salt, calcium phosphate, velvet bean meal.	Molasses, corn distillers' dried grains and solubles, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, velvet bean meal, velvet bean pods, calcium phosphate, salt, and small amount small whole weed seeds.	5715
4.66	4.50	13.19	16.00	2 40	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-products (oat middlings, oat hulls, oat shorts), $\frac{3}{4}$ of 1% salt, calcium phosphate, velvet bean meal.	Molasses, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, velvet bean feed, calcium phosphate, salt, and small amount small whole weed seeds.	5694
4.31	-----	13.54	-----	56 60			
3.34	3.50	9.31	12.00	2 50	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings and 1% salt.	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings, buckwheat middlings, alfalfa meal, corn gluten feed, corn feed meal, molasses and salt.	5329
3.29	3.50	19.84	12.00	52 00	Cotton seed meal, gluten feed from corn, 25 lbs. clipped oat by-products, 27 lbs. ground wheat screenings, molasses and 1% salt.	Cottonseed meal, corn gluten feed, clipped oat by-product, ground wheat screenings, corn feed meal, molasses and salt.	5325
3.32	-----	10.07	-----	51 00			
3.47	4.80	11.66	12.00	3 45	Linseed oil meal (old process), gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa molasses and 1% salt.	As certified, -----	5166
3.52	4.80	11.11	12.00	3 60	Linseed oil meal, (old process), gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa molasses and 1% salt.	As certified, -----	5185
5.33	4.30	10.87	12.00	4 10	Linseed oil meal (old process), gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa molasses and 1% salt.	As certified, -----	5578
4.67	4.80	16.82	12.00	3 25	Cottonseed meal, linseed oil meal (old process), gluten feed from corn, hominy feed, ground alfalfa, molasses and 1% salt.	Cottonseed meal, old process linseed oil meal, corn gluten feed, alfalfa meal, brewers' dried grains, molasses and salt.	4961
3.80	4.80	12.12	12.00	3 80	Linseed oil meal (old process), gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa, molasses and 1% salt.	As certified, -----	5210

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4769	Purina Cow Chow Feed, -----	Stemler Brothers, East Mauch Chunk.	Per ct. 9.09	Per ct. 29.69	Per ct. 24.00
		Average, -----	11.72	26.92	-----
4846	*Purina Dairy Feed, -----	Latrobe Feed Supply Co., Latrobe.	13.46	22.04	20.00
5115	*Purina Dairy Feed, -----	L. A. Shaffer, Big Run, --	14.67	23.85	20.00
		Average, -----	14.07	22.95	-----
5729	ROSENBAUM BROTHERS, CHICAGO, ILL. Will-Pay Dairy Feed, -----	St. Clair, Rinn & Co., Indiana.	13.90	17.67	16.00
5566	STRATTON-LANDISH MILLING CO., MILWAUKEE, WIS. *Record Maker Dairy Feed, -----	L. Todd Owens, Apollo, ---	9.58	25.44	24.00
5723	*Record Maker Dairy Feed, -----	J. H. Rodkey, Frankstown.	16.23	28.38	24.00
		Average, -----	9.90	26.91	-----
5722	THE SUGARINE CO., PEORIA, ILL. Sueo Dairy Feed, -----	J. H. Rodkey, Frankstown.	9.65	27.19	25.00
5243	Sugarine Dairy Feed, -----	Dannals Milling Co., Altoona.	13.86	18.84	16.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.19	Per ct. 3.70	Per ct. 9.92	Per ct. 16.00	\$3 50	Brewers' dried grains, gluten feed from corn, ground alfalfa, cottonseed meal, molasses and 1% salt.	As certified, -----	4769
4.23	-----	11.08	-----	3 62			
3.38	3.40	12.90	15.70	3 25	Cottonseed meal, linseed oil meal (old process), gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	4846
3.26	3.40	11.97	15.70	3 50	Cottonseed meal, linseed oil meal (old process), gluten feed from corn, molasses, ground alfalfa and 1% salt.	As certified, -----	5115
3.32	-----	12.43	-----	3 38			
3.74	3.50	8.83	14.00	3 25	Old process linseed oil meal, cottonseed meal, corn gluten feed, ground and bolted wheat, oats, corn, barley and Kafir screenings, molasses and 1% salt.	Old process linseed oil meal, cocoanut oil meal, corn gluten feed, ground and bolted wheat, oats, corn, barley and Kafir screenings, clipped oat by-product, molasses and salt.	5720
5.76	4.50	11.67	13.00	4 00	Cottonseed meal, corn gluten, linseed meal, ground oats, ground barley, hominy feed, copra oil meal (cocoanut oil meal), alfalfa, molasses, wheat bran with ground screenings not exceeding mill run, and salt.	As certified, -----	5566
5.63	4.50	10.85	13.00	4 00	Cottonseed meal, corn gluten, linseed meal, ground oats, ground barley, hominy feed, copra oil meal (cocoanut oil meal), alfalfa, molasses, wheat bran with ground screenings not exceeding mill run, and salt.	As certified, -----	5723
5.67	-----	10.71	-----	4 00			
4.63	5.00	10.17	12.00	4 25	Molasses, alfalfa meal, linseed meal, cocoanut meal, corn feed meal, ground barley, cottonseed meal, peanut meal, calcium carbonate.	As certified, -----	5722
4.36	3.50	12.12	14.00	60 60	Molasses, ground and bolted grain screenings, clipped oat by-product, corn feed meal, ground barley, cottonseed meal, cocoanut meal, calcium carbonate and salt.	Molasses, ground and bolted grain screenings, clipped oat by-product, corn feed meal, ground barley, cottonseed meal, cocoanut oil meal, flax plant refuse, calcium carbonate and salt.	5243

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4733	THOMPSON & GLENN, BUTLER, PA. Perfection Dairy Feed, -----	Thompson & Glenn, Butler.	Per ct. 16.36	Per ct. 22.85	Per ct. 20.00
4748	GEO. WALTER & SON, BUTLER, PA. *Walter's Byrite Dairy Feed, -----	Geo. Walter & Son, Butler,	9.18	21.44	20.00
5410	F. S. WERTZ & SON, READING, PA. Berkshire Dairy Feed, -----	F. S. Wertz & Son, Reading.	13.57	13.81	15.00
5408	Farnel Dairy Feed, -----	F. S. Wertz & Son, Reading.	12.80	19.63	23.00
5122	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Hammond Dairy Feed, -----	Earley & Detweiler, Palmyra.	12.72	16.58	16.50
5054	Hammond Dairy Feed, -----	Habel & Phillips, Meyersdale.	15.32	17.47	16.50
4741	Hammond Dairy Feed, -----	Geo. Ifft & Sons, Evans City.	12.82	18.79	16.50
5748	Hammond Dairy Feed, -----	Lake View Milling Co., Chambersburg.	13.23	17.54	16.50
3526	Hammond Dairy Feed, -----	Preston & Jacquish, Troy,	13.53	17.76	16.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.64	Per ct. 5.00	Per ct. 8.73	Per ct. 15.00	\$58 00	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings, wheat bran and linseed oil meal.	Cottonseed meal, ground clipped oat by-product, ground cleaned grain screenings, wheat bran, linseed oil meal, molasses, salt and small amount small whole weed seeds.	4733
5.93	5.60	10.50	15.00	3 15	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings, wheat bran and linseed oil meal.	As certified, -----	4748
3.98	3.00	11.51	10.50	2 75	Ground grain screenings, cottonseed meal, linseed meal, gluten feed, oat feed, molasses, salt.	Ground grain screenings, cottonseed meal, linseed oil meal, corn gluten feed, oat middlings, oat hulls, molasses, salt and small amount small whole weed seeds.	5410
3.55	4.00	9.14	9.00	3 30	Gluten feed, linseed oil meal, dried brewers' grains, wheat bran, molasses, 1% salt.	As certified, -----	5408
3.90	3.50	14.30	14.20	52 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, corn distillers' dried grains, ground grain screenings, cocoa shell meal, oat middlings, oat hulls, oat shorts, molasses, salt and small amount small whole weed seeds.	5122
4.96	3.50	12.12	14.20	2 90	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, corn distillers' dried grains, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	5054
4.22	3.50	11.33	14.20	2 50	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, corn distillers' dried grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	4741
3.94	3.50	12.37	14.20	51 00	Cottonseed meal, corn distillers' grains, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, ground clipped oat by-product, ground grain screenings, malt sprouts, molasses, salt and small amount small whole weed seeds.	5748
5.04	3.50	13.13	14.20	2 55	Cottonseed meal, corn distillers' grains, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, ground clipped oat by-product, ground grain screenings, cocoa shell meal, flax plant refuse, molasses, salt and small amount small whole weed seeds.	5520

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4881	Hammond Dairy Feed, -----	J. A. Siorski, Oakdale, --	Per ct. 13.80	Per ct. 19.44	Per ct. 16.50
5259	Hammond Dairy Feed, -----	E. Strickler's Sons, Lebanon.	15.21	20.40	16.50
	PROPRIETARY STOCK, HORSE AND MULE FEEDS.	Average, -----	13.80	18.28	-----
	ACME-EVANS CO., INDIANAPOLIS, IND.				
5059	Acme Farm Feed, -----	H. W. Walker Co., Somerset.	11.53	13.44	12.00
5240	Acme Stock Feed, -----	Fay Milling Co., Hollidaysburg.	11.75	10.75	10.00
5736	Acme Stock Feed, -----	Hetrick, Wilson & Co., Indiana.	8.38	11.63	9.00
5225	Acme Stock Feed, -----	Leibovitz Feed Mills, Altoona.	9.18	10.19	10.00
4972	Acme Stock Feed, -----	Jacob Smutzinger, Munson.	10.19	10.81	9.00
5069	Acme Stock Feed, -----	H. W. Walker & Co., Somerset.	9.92	11.13	9.00
	THE AKRON FEED & MILLING CO., AKRON, OHIO.	Average, -----	9.88	10.90	-----
4736	C. O. B. Stock Feed, -----	Thompson & Glenn, Butler.	8.08	10.81	9.00
4744	Portage Middlings, -----	E. F. Gelbach, Evans City,	11.70	13.00	12.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.68	3.50	11.22	14.20	\$52 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	4881
4.70	3.50	10.84	14.20	2 60	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, corn distillers' dried grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	5259
4.49	-----	12.18	-----	52 29			
4.05	5.00	4.35	7.00	3 25	Corn, wheat bran, wheat middlings and hominy feed.	As certified, -----	5059
2.85	4.00	8.95	10.00	60 00	Corn, homlik (corn feed meal), wheat middlings, wheat bran, gluten feed, hominy meal, oat hulls, oat shorts, oat middlings and salt.	As certified, -----	5240
3.43	3.50	13.96	10.00	3 25	Corn, homlik (corn feed meal), wheat bran, wheat middlings, linseed oil meal, hominy meal, corn oil cake meal and salt.	Corn, corn feed meal, wheat bran, wheat middlings, hominy meal, oat middlings, oat hulls, oat shorts and salt.	5736
3.30	4.00	11.25	10.00	3 25	Corn homlik (corn feed meal), wheat middlings, wheat bran, gluten feed, hominy meal, oat hulls, oat shorts, oat middlings and salt.	Corn feed meal, wheat middlings, wheat bran, hominy meal, oat middlings, oat hulls, oat shorts, barley and salt.	5225
3.12	4.00	11.57	9.00	3 25	Corn, homlik (corn feed meal), barley, wheat middlings, wheat bran, hominy meal, oat hulls, oat shorts, oat middlings and salt.	Corn feed meal, wheat middlings, wheat bran, hominy meal, oat middlings, oat hulls, oat shorts and salt.	4972
3.19	4.00	13.37	9.00	2 85	Corn, homlik (corn feed meal), barley, wheat middlings, wheat bran, hominy meal, oat hulls, oat shorts, oat middlings and salt.	Corn feed meal, wheat middlings, wheat bran, hominy meal, oat middlings, oat hulls, oat shorts, corn gluten feed and salt.	5000
3.18	-----	11.80	-----	62 40			
4.48	4.00	14.13	9.00	3 50	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	4736
4.50	4.50	3.52	9.00	2 90	Maizo red dog, barley or rye products.	Maizo red-dog flour and barley middlings.	4744

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4941	Portage Middlings, -----	Monaca Roller Mills, Monaca.	Per ct. 11.25	Per ct. 12.50	Per ct. 12.00
4985	Portage Middlings, -----	J. O. Reed, Philipsburg, --	10.76	13.56	12.00
		Average, -----	11.23	13.02	-----
5448	Portage Stock Feed, -----	Boyd Milling Co., Sharon,	10.60	12.69	9.00
5351	Portage Stock Feed, -----	John S. Brown's Son, New Castle.	8.66	11.75	9.00
5488	Portage Stock Feed, -----	Keystone Supply Co., Jeanette.	9.36	11.38	9.00
4844	Portage Stock Feed, -----	Latrobe Feed Supply Co., Latrobe.	10.82	10.81	9.00
4727	Portage Stock Feed, -----	P. J. Oesterling & Son, Butler.	9.08	10.50	9.00
4987	Portage Stock Feed, -----	J. O. Reed, Philipsburg, --	9.91	11.75	9.00
		Average, -----	9.73	11.48	-----
5365	AMERICAN MILLING CO., PEORIA, ILL. Ameo Stock Feed, -----	W. W. Davidson & Son, Ellwood City.	10.40	12.69	10.00
4737	ARCADY FARMS MILLING CO., CHICAGO, ILL. Arcady Stock Feed, -----	Thompson & Glenn, Butler,	8.35	13.00	10.00
5388	THE ALBERT H. BUEHRLE CO., YOUNGSTOWN, OHIO. Hi-Quality Horse and Mule Feed, ----	Enterprise Milling Co., Oil City.	10.21	13.00	11.50
4910	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Stock Feed, -----	Francis Baker, Everett, --	8.00	13.69	10.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.88	Per ct. 4.56	Per ct. 3.72	Per ct. 9.00	\$3 30	Maize red dog, barley or rye products.	Maize red-dog flour, barley middlings and rye middlings.	4941
3.20	4.50	2.60	9.00	3 50	Maize red dog, barley or rye products.	Maize red dog flour and barley middlings.	4985
3.53	-----	3.28	-----	3 23			
2.93	4.00	11.36	9.00	3 10	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	5448
3.20	4.00	13.10	9.00	3 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	5351
2.23	4.00	10.92	9.00	65 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	5488
3.60	4.00	10.00	9.00	3 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	4844
3.45	4.00	10.25	9.00	2 80	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	4727
3.25	4.00	10.92	9.00	3 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	4987
3.01	-----	11.08	-----	60 50			
3.58	3.56	11.92	9.00	3 00	Corn germ meal, corn feed meal, hominy feed, corn gluten feed, oat shorts, oat middlings, oat hulls and salt.	Corn germ meal, corn feed meal, hominy feed, linseed oil meal, oat middlings, oat hulls, oat shorts and salt.	5365
5.10	3.50	14.61	15.00	2 90	Corn oil cake meal, old process linseed oil meal, hominy feed, wheat bran and wheat middlings (with screenings not to exceed mill run), ground oats, corn feed meal, clipped oat by-product, salt 1%.	Old process linseed oil meal, hominy feed, wheat bran and wheat middlings with mill run screenings, ground oats, corn feed meal, corn gluten feed, oat middlings, oat hulls, oat shorts and salt.	4737
5.10	4.50	7.22	7.50	3 30	Pure oats, corn, oil meal, bran and not to exceed 1% of salt.	As certified, -----	5388
4.20	4.00	15.07	15.00	2 90	Ground oats, hominy feed, corn feed meal, ground and bolted clipped oats by-product, wheat bran with screenings not exceeding mill run, linseed meal, pure old process cocoanut meal.	Ground oats, hominy feed, corn feed meal, oat middlings, oat hulls, wheat bran with mill run screenings, linseed oil meal and pure old process cocoanut oil meal.	4910

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4760	Clover Leaf Mills Stock Feed, -----	John G. Seager's Sons, Hazleton.	Per ct. 8.40	Per ct. 11.50	Per ct. 10.00
		Average, -----	8.20	12.60	-----
4758	White Mountain Stock Feed, -----	John G. Seager's Sons, Hazleton.	9.47	11.13	9.00
4857	THE ALBERT DICKINSON CO., CHICAGO, ILL. Stag Stock Feed, -----	City Feed Store, Scottdale,	9.85	12.19	9.00
5559	Stag Stock Feed, -----	Harry May, Leechburg, --	10.31	11.50	9.00
5541	Stag Stock Feed, -----	R. C. Moutser, Charleroi,	10.20	10.50	9.00
		Average, -----	10.12	11.40	-----
5223	White Cross Stock Feed, -----	A. T. Sprankle, DuBois,	11.25	13.13	10.00
5753	DIEHL, OMWAKE & DIEHL, CHAMBERSBURG, PA. D. O. D. Stock Feed, -----	Diehl, Omwake & Diehl, Chambersburg.	11.25	15.75	10.00
5248	EMPORIUM MILLING CO., EM- PORIUM, PA. Emporium Feed, -----	Emporium Milling Co., Emporium.	12.58	10.19	7.63

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.60	Per ct. 4.00	Per ct. 15.00	Per ct. 15.00	\$3 00	Ground oats, hominy feed, corn feed meal, ground and bolted clipped oats by-product, wheat bran with screenings not exceeding mill run, linseed meal, pure old process cocoanut meal.	Ground oats, hominy feed, corn feed meal, wheat bran with screenings, linseed oil meal, oat hulls and oat middlings.	4760
4.40	-----	15.03	-----	2 95			
5.00	4.00	8.67	11.00	3 25	Hominy feed and oat meal mill by-product (oat hulls, oat middlings, oat shorts).	As certified, -----	4758
5.53	3.60	8.67	9.00	3 00	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat middlings, salt $\frac{1}{2}$ of 1%.	Corn feed meal, ground corn bran, ground corn screenings, oat middlings, oat hulls, oat shorts, wheat middlings and salt.	4857
3.40	3.00	9.27	9.00	3 50	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat middlings, cottonseed meal and salt $\frac{1}{2}$ of 1%.	As certified, -----	5559
3.05	2.00	9.50	9.00	3 25	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat middlings, cottonseed meal and salt $\frac{1}{2}$ of 1%.	As certified, -----	5541
3.93	-----	9.14	-----	3 25			
5.30	3.50	4.85	10.00	3 50	Ground oats, ground barley, corn feed meal, wheat middlings, ground corn bran, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Ground oats, corn feed meal, wheat middlings, ground corn bran, cottonseed meal and salt.	5223
4.18	3.25	9.40	10.00	62 00	Corn chop, wheat bran, wheat middlings, oat middlings, oat shorts, old process oil meal, cottonseed meal, ground barley and $\frac{1}{2}$ of 1% salt.	Corn chop, wheat bran, wheat middlings, oat middlings, oat hulls, oat shorts, old process linseed oil meal, cottonseed meal and salt.	5753
3.10	2.97	5.35	9.00	3 20	Corn, hominy, oats, oat hulls, oat middlings.	As certified, -----	5248

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5093	JOHN W. ESHELMAN & SONS, LANCASTER, PA. Eshelmans Stock Feed, -----	Paxton Flour & Feed Co., Harrisburg.	Per ct. 10.24	Per ct. 11.75	Per ct. 10.00
5154	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Buffalo Stock Feed, -----	Haney-Frazier Milling & Elevator Co., Riverside.	10.25	10.69	9.00
5102	Buffalo Stock Feed, -----	Jefferson Flour & Feed Co., Punxsutawney.	12.18	11.75	9.00
5097	Buffalo Stock Feed, -----	Keystone Flour & Feed Co.	10.83	11.19	9.00
5665	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL. Keystone Horse & Mule Feed, -----	Average, ----- L. F. Miller & Sons, Philadelphia.	11.08 15.93	11.21 9.42	----- 9.60
5652	HALES & EDWARDS CO., CHI- CAGO, ILL. Excelsior Horse Feed, -----	Russell Brothers, Wash- ington.	9.23	11.88	10.00
5595	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Jem Stock Feed, -----	R. T. Jones, North War- ren.	9.53	11.94	11.00
5218	Jem Stock Feed, -----	Timlin-Kelly & Co., Du- Bois.	7.78	13.00	11.00
5241	KLEPSER BROTHERS, ALTOONA, PA. Horse Chop, -----	Average, ----- Klepser Brothers, Altoona,	8.65 11.31	12.47 14.31	----- 7.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.30	Per ct. 3.66	Per ct. 9.60	Per ct. 10.00	\$3 05	Cottonseed meal, wheat middlings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), ground grain screenings, rye middlings, corn feed meal and hominy feed.	As certified, -----	5093
3.95	3.60	10.27	9.00	3 10	Ground corn, corn hominy feed, ground oats and oat hulls, barley hulls, wheat middlings, cottonseed meal, salt $\frac{3}{4}$ of 1%, and barley middlings.	As certified, -----	5154
3.05	3.00	8.95	9.00	3 25	Ground corn, corn hominy feed, ground oats and oat hulls, barley middlings, barley hulls, wheat middlings, cottonseed meal, salt $\frac{3}{4}$ of 1%.	Ground corn, corn hominy feed, ground oats, ground oat hulls, barley middlings, barley hulls, wheat middlings, cottonseed meal, ground peas and salt.	5102
3.28	3.00	9.82	9.00	3 50	Ground corn, corn hominy feed, ground oats and oat hulls, barley middlings, barley hulls, wheat middlings, cottonseed meal, salt $\frac{3}{4}$ of 1%.	As certified, -----	5097
3.43	-----	9.68	-----	3.28			
1.20	1.50	17.02	18.00	47 00	Corn, oats, alfalfa meal, clipped oat by-product, ground grain screenings, $\frac{1}{2}$ of 1% salt.	Corn, oats, alfalfa meal, ground grain screenings, flax plant refuse and salt.	5635
4.75	3.00	6.72	8.00	3 75	Rollled oats, sifted cracked corn and rolled barley.	Rollled oats, sifted cracked corn, rolled barley and small amount whole weed seeds.	5652
4.88	5.60	10.95	9.00	3 35	Ground corn, hominy feed, ground oats, corn germ meal, cottonseed meal, 500 lbs. of oat meal mill by-products, oat middlings, oat shorts, re-ground oat hulls, $\frac{1}{2}$ of 1% fine salt.	As certified, -----	5595
5.70	6.00	12.15	9.00	3 15	Ground corn, hominy feed, corn oil meal, ground oats, oat middlings, oat shorts, re-ground oat hulls, linseed oil meal, small percentage of fine salt.	As certified, -----	5218
5.29	-----	11.55	-----	3 25			
4.55	3.00	5.35	7-9	3 50	Rye midds, wheat midds, oats and hominy.	Rye middlings, wheat middlings, oats, hominy feed and corn gluten meal.	5241

TABLE III.—ANALYSES OF SAMPLES OF

Chemists' number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS.				
5242	*Badger Fancy Mixed Feed, -----	Klepser Brothers, Altoona,	Per ct. 9.10	Per ct. 12.19	Per ct. 12.50
4967	Badger Stock Feed, -----	H. O. Andrews, Mapleton,	9.12	15.19	16.09
5629	Badger Stock Feed, -----	C. D. Chamberlain, South Brownsville.	9.20	11.56	16.00
5504	Badger Stock Feed, -----	Farmers' & Consumers' Commercial Union, Troy.	10.29	11.25	16.00
5553	Badger Stock Feed, -----	F. H. Hagerman, Towanda.	9.84	12.69	16.50
5231	Badger Stock Feed, -----	H. H. Langdon, Altoona,	8.50	11.44	16.00
5444	Badger Stock Feed, -----	Lurie Brothers, Sharon, --	11.27	12.31	16.00
4842	Badger Stock Feed, -----	McFarland Supply Co., Greensburg.	16.18	14.06	16.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.98	Per ct. 4.00	Per ct. 2.45	Per ct. 9.00	\$3 50	Maize red dog flour and wheat bran with ground screenings not exceeding mill run.	As certified, -----	5242
3.78	4.25	10.90	9.00	3 10	Hominy feed, corn, corn germ meal, maize red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	4907
3.93	3.25	13.90	9.00	67 00	Hominy feed, corn red-dog, corn germ meal, barley, wheat middlings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), O. P. linseed oil meal and salt.	As certified, -----	5629
3.13	3.25	11.27	9.00	3 05	Hominy feed, corn red-dog, corn germ meal, barley, wheat middlings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), O. P. linseed oil meal and salt.	As certified, -----	5504
3.20	3.25	11.50	9.00	3 30	Hominy feed, corn red-dog, corn germ meal, barley, wheat middlings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), O. P. linseed oil meal and salt.	As certified, -----	5553
3.20	4.50	9.82	9.00	3 25	Hominy feed, corn germ meal, maize red-dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and salt.	As certified, -----	5231
3.53	3.50	13.18	12.00	3 25	Hominy feed, corn red-dog, corn germ meal, barley, wheat middlings, oat meal mill by-products (oat middlings, oat hulls, oat shorts), O. P. linseed oil meal and salt.	As certified, -----	5444
4.28	4.50	10.62	9.00	2 80	Barley feed, corn, corn germ meal, maize red-dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and wheat middlings with screenings not exceeding mill run, and salt.	As certified, -----	4842

TABLE III.—ANALYSES OF SAMPLES OF

Chemists' number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5063	Badger Stock Feed, -----	B. N. Palmer & Co., Portage.	Per ct. 7.90	Per ct. 11.75	Per ct. 10.00
5470	Badger Stock Feed, -----	Shamokin Milling Co., Shamokin.	8.88	11.69	10.00
5587	Badger Stock Feed, -----	Frank Trussler, Warren,--	9.57	11.56	10.00
		Average, -----	9.47	12.35	-----
5226	THE LAKE ERIE MILLING CO., TOLEDO, OHIO. Mollett's Park City Stock Feed, ----	Leibovitz Feed Mills, Al- toona.	10.45	8.88	8-9
5617	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Puritan Stock Feed, -----	C. S. Hunter Co., Wash- ington.	10.50	9.44	8.00
5359	Puritan Stock Feed, -----	J. P. Morrison, Ellwood City.	10.18	11.25	8.06
		Average, -----	10.34	10.35	-----
4958	CHAS. H. LONGCOPE, PHILA- DELPHIA, PA. Special Mixed Feed, -----	Chas. H. Longeope, Phila- delphia.	15.97	9.96	-----
5310	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mihimico Stock Feed, -----	Miner-Hillard Milling Co., Plymouth.	10.17	13.63	11.00
5516	MYSTIC MILLING & FEED CO., ROCHESTER, N. Y. *Mystic Feed for Horses, Cattle & Swine.	F. P. Case & Son, Troy,	10.11	11.25	9.11
4885	NEWSOME FEED & GRAIN CO., PITTSBURGH, PA. Palmo Mixed Feed, -----	J. H. Burgen & Son, Car- negie.	5.54	12.41	12.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
3.91	4.50	14.32	9.00	\$3 00	Hominy feed, corn, corn germ meal, maize red-dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran, wheat and rye middlings with screenings not exceeding mill run and salt.	Hominy feed, corn, corn germ meal, maize red-dog flour, oat middlings, oat hulls, oat shorts, wheat bran and rye middlings with mill run screenings, linseed oil meal and salt.	5666
3.10	3.25	15.88	9.60	3 40	Hominy feed, corn red-dog, corn germ meal, barley, wheat middlings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), O. P. linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5470
3.29	3.25	14.39	9.00	3 10	Hominy feed, corn red-dog, corn germ meal, barley, wheat middlings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), O. P. linseed oil meal and salt.	As certified, -----	5587
3.74	-----	12.52	-----	63 20			
3.80	3.5-4.5	9.87	9.00	3 25	Corn, oats, oat groats, oat middlings, oat hulls, corn meal offal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5226
3.63	3.50	7.70	6.00	3 90	Corn, oats and oat hulls.	Corn, oats, oat hulls and corn siftings.	5647
3.05	3.50	6.72	6.00	3 20	Corn, oats and oat hulls.	Corn, oats, oat hulls, barley and barley hulls.	5359
3.34	-----	7.21	-----	3.55			
3.40	-----	7.51	-----	2 65	Cut hay, cracked corn, bran and alfalfa.	As certified, -----	4958
4.38	4.00	7.40	10.00	3 40	Alfalfa meal, hominy feed, wheat middlings, rye middlings, corn, oats, corn oil meal, salt.	As certified, -----	5310
3.96	3-5	10.97	9-11	3 10	Ground oats and barley, wheat middlings, corn meal, white hominy feed, oat middlings, oat hulls, old process oil meal and not over 1% salt.	As certified, -----	5516
4.51	7.00	16.26	16.00	3 00	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Wheat middlings, rye middlings, cottonseed hulls and palm oil.	4885

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
5362	Palmo Mixed Feed, -----	W. W. Davidson & Son, Ellwood City.	Per ct. 7.43	Per ct. 15.81	Per ct. 12.00
5067	Palmo Mixed Feed, -----	Denny & Allison, Hickory,	4.50	15.69	12.00
5109	Palmo Mixed Feed, -----	Fales Grocery Co., Reynolds-ville.	5.32	14.25	12.00
5012	Palmo Mixed Feed, -----	J. H. Hershberger & Son, Johnstown.	6.28	15.09	12.00
5395	Palmo Mixed Feed, -----	Johnson & Co., Franklin,	6.61	14.69	12.00
5480	Palmo Mixed Feed, -----	J. Harvey Miller, Ligonier.	8.45	12.00	12.00
5718	Palmo Mixed Feed, -----	Tyrone Milling Co., Ty-rone.	8.03	12.38	12.09
5139	NOWAK MILLING CORPORATION, BUFFALO, N. Y.	Average, -----	6.52	14.12	-----
	Fidelity Horse Feed, -----	J. E. Dubbs, Bellefonte, --	10.83	9.88	7.00
5112	Fidelity Stock Feed, -----	Patton & Morrison, Reynolds-ville.	11.41	9.56	10.00
5641	THE PARK & POLLARD CO. OF ILLINOIS, CHICAGO, ILL. Park & Pollard Stock Feed, -----	J. F. Malone, Sewickley, --	9.41	8.25	9.00
4979	Park & Pollard Stock Feed, -----	John W. Smith & Brother, Clearfield.	9.00	10.25	9.00
4855	J. E. PRITTS, SCOTTDALE, PA. *Pritt's Alfalfa Horse Feed, -----	Average, -----	9.20	9.25	-----
		J. E. Pritts, Scottdale, --	10.36	21.13	14-16
4715	PURITY OATS CO. OF DAVENPORT, DAVENPORT, IOWA. Iowa Stock Feed, -----	S. Book & Brother, Quarryville.	8.33	12.50	10.00
4935	Iowa Stock Feed, -----	W. W. McCullough, West Bridgewater.	8.81	12.56	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
7.18	7.00	8.60	13.00	\$2 50	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Wheat middlings, rye middlings, cottonseed hulls and palm oil.	5362
7.80	7.00	12.57	10.00	39 00	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Wheat middlings, cottonseed hulls and palm oil.	5067
6.22	7.00	14.43	10.00	2 25	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Rye middlings, cottonseed hulls and palm oil.	5109
7.68	7.00	11.22	10.00	2 15	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Rye middlings, cottonseed hulls and palm oil.	5012
5.07	7.00	16.26	10.00	2 10	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Wheat middlings, rye middlings, cottonseed hulls and palm oil.	5395
5.80	7.00	14.20	10.00	2 25	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Wheat middlings, cottonseed hulls and palm oil.	5480
7.25	6.00	19.84	10.00	45 00	Cleaning middlings, re-ground cottonseed hulls and palm oil.	Wheat middlings, cottonseed hulls and palm oil.	5718
6.44	-----	14.17	-----	46 13			
3.00	3.00	11.22	10.00	3 25	Ground oats, corn feed meal, hominy feed, wheat middlings, oat shorts, oat middlings, oat hulls (not more than 35 lbs. of oat shorts, oat middlings and oat hulls to each 100 lbs. of this feed), salt $\frac{3}{4}$ of 1%.	As certified, -----	5139
3.00	3.00	13.22	12.00	3 25	Ground oats, corn feed meal, hominy feed, wheat middlings, oat hulls, salt $\frac{1}{2}$ of 1%.	As certified, -----	5112
2.90	1.50	12.10	12.00	3 75	Ground corn, hominy feed and oat feed.	Hominy feed, oat middlings, oat hulls and corn screenings.	5641
3.03	1.50	7.95	12.00	3 00	Ground corn, hominy feed and oat feed.	As certified, -----	4979
2.97	-----	10.02	-----	3 38			
4.93	4.5-6	8.72	12.00	3 25	Alfalfa meal, wheat bran, wheat middlings, corn, oats, cottonseed meal and oil meal.	As certified, -----	4855
5.60	4.00	11.80	9.00	3 00	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and 1% of table salt.	As certified, -----	4715
3.98	4.00	12.35	9.00	2 90	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and 1% of table salt.	As certified, -----	4935

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4971	Iowa Stock Feed, -----	Jacob Smutzinger, Munson.	Per ct. 9.12	Per ct. 11.75	Per ct. 10.00
5273	Iowa Stock Feed, -----	C. F. & W. H. Strickler Milling Co., Lebanon.	10.16	12.88	10.00
		Average, -----	9.11	12.42	-----
5627	THE QUAKER OATS CO., CHICAGO, ILL. C. O. & B. Feed, -----	C. D. Chamberlain, South Brownsville.	8.72	12.13	10.00
4790	C. O. & B. Feed, -----	M. H. Clark, Uniontown,	8.67	12.00	10.00
5761	C. O. & B. Feed, -----	Walker Brothers, Chambersburg.	9.58	12.63	10.00
		Average, -----	8.99	12.25	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.17	4.00	12.36	9.00	\$3 25	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and 1% of table salt.	As certified, -----	4971
4.13	4.00	10.67	9.00	3 10	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and 1% of table salt.	As certified, -----	5273
4.47	-----	11.80	-----	3 65			
3.95	3.25	11.57	9.00	67 00	Ground corn, hominy feed, yellow hominy feed, linseed oil meal, ground barley, rye flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, -----	5627
3.73	3.25	10.05	9.00	3 00	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, $\frac{1}{2}$ of 1% salt, linseed meal.	As certified, -----	4790
4.45	3.25	11.15	9.00	3 25	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal, $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with mill run ground screenings, ground puffed rice, cottonseed meal, ground puffed wheat, oat middlings, oat hulls, oat shorts, linseed oil meal, calcium phosphate and salt.	5761
4.04	-----	10.92	-----	64 00			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4778	Schumacher Feed, -----	D. O. Christman, Weissport.	Per ct. 9.51	Per ct. 12.75	Per ct. 10.00
5546	Schumacher Feed, -----	Dayton Milling Co., Towanda.	8.57	10.50	10.00
5238	Schumacher Feed, -----	Fay Milling Co., Hollidaysburg.	9.31	11.56	10.00
5529	Schumacher Feed, -----	D. E. Gamble, Monongahela City.	10.22	11.88	10.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.90	Per ct. 3.25	Per ct. 9.87	Per ct. 9.00	\$2 90	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, $\frac{1}{2}$ of 1% salt, linseed meal.	As certified, -----	4778
3.63	3.25	13.36	9.00	3 60	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed wheat, ground puffed rice, oatmeal mill by product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal, $\frac{1}{2}$ of 1% salt.	As certified, -----	5546
2.38	3.25	9.70	9.00	60 00	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed wheat, ground puffed rice, oatmeal mill by product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal, $\frac{1}{2}$ of 1% salt.	As certified, -----	5238
2.70	3.25	11.00	9.00	3 40	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed wheat, ground puffed rice, oatmeal mill by product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal, $\frac{1}{2}$ of 1% salt.	As certified, -----	5529

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
5571	Schumacher Feed, -----	J. A. Gault Co., Kittanning.	Per ct. 10.68	Per ct. 13.06	Per ct. 10.00
5703	Schumacher Feed, -----	W. H. Herman & Son, Beaver Springs.	9.02	10.94	10.00
5739	Schumacher Feed, -----	Linus M. Lewis, Indiana,--	9.09	12.81	10.00
4869	Schumacher Feed, -----	The Irwin Muir Co., Brad- dock.	10.10	12.38	10.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.38	Per ct. 3.25	Per ct. 11.00	Per ct. 9.00	\$3 50	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5571
3.18	3.25	10.82	9.00	3 50	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5703
3.33	4.00	11.02	9.00	3 50	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal, $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with mill run ground screenings, cottonseed meal, ground puffed rice, ground puffed wheat, oat middlings, oat hulls, oat shorts, calcium phosphate and salt,	5739
4.98	3.25	10.30	9.00	2 80	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings (with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, $\frac{1}{2}$ of 1% salt, linseed meal.	As certified, -----	4869

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5129	Schumacher Feed, -----	J. M. Porter, Sharon, ---	Per ct. 9.85	Per ct. 13.13	Per ct. 10.00
5038	Schumacher Feed, -----	John T. Rodgers, McVey- town.	9.95	12.50	10.00
5258	Schumacher Feed, -----	E. Stirekler's Sons, Leba- non.	10.79	10.94	10.00
5584	Schumacher Feed, -----	Swanson Grocery Co., Kane.	9.90	12.38	10.00
4897	Schumacher Feed, -----	Walton Brothers, Philadel- phia.	9.30	12.00	10.00
		Average, -----	9.66	12.07	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.25	Per ct. 3.25	Per ct. 9.72	Per ct. 9.00	\$3 25	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal, $\frac{1}{2}$ of 1% salt.	As certified, -----	5429
3.78	3.25	9.07	9.00	3 00	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, $\frac{1}{2}$ of 1% salt.	As certified, -----	5038
3.28	3.25	10.95	9.00	2 90	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5258
3.85	3.25	11.35	9.00	3 25	Ground corn, hominy feed, yellow hominy feed, ground barley, rye flour, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5584
4.05	3.25	11.50	9.00	53 00	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings (with ground screenings not exceeding mill run), cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate, linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	4897
3.59	-----	10.70	-----	63 46			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4786	White Diamond Feed, -----	King Brothers, Uniontown,	Per ct. 8.89	Per ct. 11.44	-----
4899	RALSTON PURINA CO., ST. LOUIS, MO. *Star Stock Feed, -----	Huntingdon Milling Co., Huntingdon.	8.31	13.63	12.00
5278	*Star Stock Feed, -----	Port Allegany Milling Co., Port Allegany.	9.40	13.00	12.00
5564	ROSENBAUM BROTHERS, CHICAGO, ILL. *Vitality Stock Feed, -----	Average, ----- L. Todd Owens, Apollo, --	8.85 10.36	13.32 11.44	----- 9.00
5636	*Vitality Stock Feed, -----	Purdy Brothers, Sewickley.	10.07	16.56	9.00
5728	*Vitality Stock Feed, -----	St. Clair, Rinn & Co., Indiana.	10.05	11.25	9.00
5658	*Vitality Stock Feed, -----	Washington Grain & Feed Co., Washington.	9.50	11.00	9.00
5121	S. F. SCATTERGOOD & CO., PHILADELPHIA, PA. *Scattergood Stock Feed, -----	Average, ----- Earley & Detweiler, Palmyra.	9.99 9.50	11.06 12.63	----- 10.00
5272	*Scattergood Stock Feed, -----	C. F. & W. H. Strickler Milling Co., Lebanon.	9.83	12.94	10.00
5197	SMITH-PARRY CO., MILWAUKEE, WIS. 4-All Stock Feed, -----	Average, ----- S. A. Fishburn, Penbrook,	9.66 10.57	12.79 17.44	----- 12.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.15	Per ct.	Per ct. 8.15	Per ct.	\$3 25			
						Ground corn, hominy feed, corn feed meal, oat middlings, oat hulls and oat shorts.	4786
5.08	3.00	12.00	15.00	3 00	Hominy feed, wheat middlings, cottonseed meal, ground corn meal from shelled corn, oat meal mill by-product, and salt.	As certified, -----	4899
5.08	3.00	11.15	15.00	3 15	Hominy feed, wheat middlings, cottonseed meal, ground corn meal from shelled corn, oat meal mill by-product, and salt.	As certified, -----	5278
5.08		11.57		3 68			
3.63	3.00	8.95	12.00	3 50	Corn feed meal, ground oats, ground barley, wheat bran, oat meal mill by-product and 1% salt.	As certified, -----	5564
3.25	3.00	10.32	12.00	3 40	Corn feed meal, ground oats, ground barley, wheat bran, oat hulls and 1% salt.	As certified, -----	5636
3.63	3.00	11.22	12.00	3 40	Corn feed meal, ground oats, ground barley, wheat bran, oat meal mill by-product and 1% salt.	As certified, -----	5728
3.73	3.00	10.02	12.00	3 40	Corn feed meal, ground oats, ground barley, wheat bran, oat meal mill by-product and 1% salt.	As certified, -----	5638
3.56		10.12		3 43			
4.43	4.00	12.67	9.00	58 00	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and 1% of table salt.	As certified, -----	5121
4.03	4.00	18.70	9.00	3 10	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and 1% of table salt.	As certified, -----	5272
4.23		13.18		60 00			
5.15	4.00	10.92	10.00	2 90	Hominy feed, ground corn oil meal, ground barley, linseed oil meal, wheat bran, wheat middlings, oat products (middlings, shorts and hulls), salt.	Hominy feed, ground corn, corn oil meal, ground barley, linseed oil meal, wheat bran, wheat middlings, oat middlings, oat hulls, oat shorts, malt sprouts, salt, and small amount of whole weed seeds.	5197

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5035	SPANOGLE-YEAGER MILLING CO., LEWISTOWN, PA. B Stock Feed, -----	Spanogle-Yeager Milling Co., Lewistown.	Per ct. 10.71	Per ct. 12.88	-----
5000	JESSE C. STEWART CO., PITTS- BURGH, PA. Shadyside Stock Feed, -----	Charles F. Adamitz, Hays,	9.18	13.00	10.00
5534	STRATTON-LADISH MILLING CO., MILWAUKEE, WIS. National Stock Feed, -----	J. A. Williams, California,	11.82	11.50	10.00
5539	True Value Stock Feed, -----	R. C. Mountser, Charleroi,	10.17	12.44	11.00
5505	True Value Stock Feed, -----	L. Todd Owens, Apollo, --	9.87	12.19	11.00
5244	SUGARINE CO., PEORIA, ILL. Suco Stock Feed, -----	Average, -----	10.02	12.32	-----
		Dannals Milling Co., Al- toona.	10.78	13.00	10.00
5320	E. S. WOODWORTH & CO., MIN- NEAPOLIS, MINN. *Diamond Dairy Feed No. 2, -----	Standard Feed Co., Wilkes- Barre.	9.65	12.75	8-9
5449	PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MO- LASSES. AKRON FEED & MILLING CO., AKRON, OHIO. *Portage Horse Feed, -----	Boyd Milling Co., Sharon,	17.44	10.65	9.00
5342	AMERICAN HOMINY CO., DECA- TUR, ILL. Homeo Jr. Horse Feed, -----	Chas. H. Longcope, Phila- delphia.	15.28	10.58	10.00
5364	AMERICAN MILLING CO., PEO- RIA, ILL. *Suerene Horse & Mule Feed, -----	W. W. Davidson & Son, Ellwood City.	14.19	9.86	9.00
5001	Suerene Horse Feed with Alfalfa, ----	Geo. Renton & Co., Cas- tle Shannon.	15.88	11.14	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.53	Per ct.	Per ct. 6.25	Per ct.	\$ 00			
					Barley, oats, gluten feed, ear corn, corn meal siftings, rye.	As certified, -----	5035
3.58	3.50	10.15	9.00	3 00	Corn flour, wheat middlings, reground oat feed and hominy feed.	As certified, -----	5000
5.18	3.00	5.77	10.00	3 30	Bran, linseed meal, ground oats, oat feed, corn feed meal, salt.	As certified, -----	5534
3.80	3.50	11.27	9.75	3 25	Linseed oil meal, hominy feed, crushed oats, ground corn, ground barley, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), salt.	As certified, -----	5539
3.98	3.50	11.20	12.00	3 50	Linseed oil meal, hominy feed, crushed oats, ground corn, ground barley, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), salt.	As certified, -----	5565
3.80	-----	11.23	-----	3 38			
3.50	3.50	11.05	9.00	3 25	Ground barley, linseed meal, corn feed meal, cocoanut meal, oat middlings, oat hulls, oat shorts, salt.	Linseed oil meal, corn feed meal, cocoanut oil meal, oat middlings, oat hulls, oat shorts and salt.	5244
6.66	4-5	20.49	20-22	3 00	Ground grain screenings, broken flax, broken wheat seeds, rice feed, oat feed.	Ground grain screenings, broken flax, broken wheat, oat middlings, oat hulls, oat shorts, flax plant refuse, rice hulls and small amount whole weed seeds.	5320
1.64	2.50	12.37	2.50	3 15	Rolled oats, cracked corn, rolled barley, alfalfa meal and molasses.	As certified, -----	5449
2.56	2.00	12.95	12.00	53 00	Cracked corn, rolled oats, alfalfa and molasses.	As certified, -----	5342
2.65	2.50	10.99	12.00	3 00	Molasses, corn, oats, oat shorts, oat middlings, oat hulls, barley and salt.	As certified, -----	5364
3.13	2.00	7.82	12.00	64 00	Molasses, alfalfa, corn, oats and salt.	As certified, -----	5001

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4961	ARCADY FARMS MILLING CO., CHICAGO, ILL. Country Gentleman Horse Feed, -----	Chas. H. Longeope, Phila- delphia.	Per ct. 14.15	Per ct. 12.64	Per ct. 9.00
5432	J. J. BADENOCH CO., CHICAGO, ILL. Gloskoat Horse Feed, -----	J. M. Porter, Sharon, ---	11.85	11.44	10.00
5426	H. BEIDLER & CO., PHILADEL- PHIA, PA. Beidler's Energy Horse Feed, -----	H. Beidler & Co., Phila- delphia.	15.13	12.42	-----
5425	Beidler's Meeea Horse Feed, -----	H. Beidler & Co., Phila- delphia.	14.32	11.22	5-8
5413	*Epoch Horse Feed, -----	L. F. Miller & Sons, Philadelphia.	15.79	12.37	-----
5427	H. B. CASSEL & SON, PHILADEL- PHIA, PA. Omae Horse Feed, -----	H. B. Cassel & Son, Philadelphia.	19.14	9.96	10.00
5610	Omae Horse Feed, -----	H. B. Cassel & Son, Philadelphia.	8.45	10.29	10.00
		Average, -----	13.79	10.13	-----
5428	Sweet Meal, -----	H. B. Cassel & Son, Philadelphia.	20.38	9.29	9.00
5611	Sweet Meal, -----	H. B. Cassel & Son, Philadelphia.	18.64	8.66	9.00
		Average, -----	19.51	8.98	-----
5612	JOSEPH CHRIST, PHILADEL- PHIA, PA. *Christ Specials Horse Feed, -----	Joseph Christ, Philadel- phia.	15.35	11.11	5-8
4779	CLOVER LEAF MILLING CO., BUFFALO, N. Y. *Buffalo Horse Feed, -----	C. W. Royer & Co., Ta- maqua.	14.62	14.00	9.00
4761	Clover Leaf Mills Horse Feed, -----	John G. Seager's Son's, Hazleton.	15.77	12.10	10.00
5228	Peerless Horse Feed, -----	Leibovitz Feed Mills, Al- toona.	13.88	13.86	8.00
4952	WASHINGTON COATES ESTATE, PHILADELPHIA, PA. Soft Feed, -----	Washington Coates Est., Philadelphia.	14.21	10.52	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.54	Per ct. 2.00	Per ct. 14.59	Per ct. 15.09	\$3 00	Cracked corn, oats, alfalfa, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	4961
4.25	2.00	7.10	18.00	3 25	Cracked corn, crushed oats, crushed barley, alfalfa meal and molasses.	As certified, -----	5432
1.94	-----	14.98	-----	53 00	Cracked corn, oats, alfalfa meal and molasses.	As certified, -----	5426
1.87	1-2	11.68	15-20	62 00	Cracked corn, oats, alfalfa meal and molasses.	As certified, -----	5425
2.67	-----	12.76	-----	56 00	Corn, oats, alfalfa meal and molasses.	As certified, -----	5413
2.46	2.00	10.68	16.00	57 00	Alfalfa meal, crushed oats, cracked corn, molasses.	As certified, -----	5427
1.65	2.00	10.86	16.00	55 00	Alfalfa meal, crushed oats, cracked corn, molasses.	As certified, -----	5610
2.06	-----	10.77	-----	56 00			
0.65	1.00	11.66	30.00	42 00	Alfalfa meal, molasses,	As certified, -----	5428
0.76	1.00	11.23	30.00	41 00	Alfalfa meal, molasses,	As certified, -----	5611
0.68	-----	11.44	-----	41.50			
2.10	1-2	12.53	15-20	3 20	Cracked corn, oats, alfalfa meal and molasses.	As certified, -----	5612
1.61	1.50	17.79	15.00	3 00	Cracked corn, crushed oats, alfalfa meal, flax plant by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4779
2.41	2.00	9.19	12.00	3 25	Cracked corn, crushed oats, alfalfa meal, molasses.	As certified, -----	4761
2.64	1.50	15.67	14.00	3 25	Cracked corn, ground oats, alfalfa meal and molasses.	As certified, -----	5228
3.61	-----	10.89	-----	2 75	Cut hay, Pul-mor horse feed, oats, cracked corn and bran.	Cut hay, oats cracked corn, wheat bran, alfalfa meal, oat middlings, oat hulls, oat shorts, flax plant refuse, molasses and salt.	4952

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5379	CURTISS GRAIN CORPORATION, BUFFALO, N. Y. Faramel Horse Feed, -----	Smith Brothers, Bradford,	Per ct. 15.02	Per ct. 10.91	Per ct. 8.00
5557	THE ALBERT DICKINSON CO., CHICAGO, ILL. Hobby Horse Feed, -----	Harry May, Leechburg, --	18.19	11.86	9.00
5082	Rival Horse Feed, -----	John E. Ross, Etna, ----	15.97	11.45	9.00
5075	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Dixie Horse & Mule Feed, -----	Johnston & Hamilton, Parnassus.	15.11	10.98	10.00
4886	Dixie Horse & Mule Feed, -----	Walton Brothers, Philadel- phia.	15.19	11.58	10.00
		Average, -----	15.15	11.28	-----
5597	Holsum Horse Feed, -----	Estate Owen O'Brein, Philadelphia.	15.69	9.45	9.00
5321	JOHN W. ESHELMAN, LANCAS- TER, PA. *Eshelman's 30 Horse Feed, -----	W. S. Stuart, Carlisle,---	14.27	10.44	7.00
5346	EXCELLÖ FEED MILLING CO., ST. JOSEPH, MO. Reliable Molasses Feed, -----	Fred. L. Lemont, Phila- delphia.	18.79	11.02	9.00
5340	GEO. H. FETZER, PHILADEL- PHIA, PA. Empire Horse Feed, -----	H. Wolf & Son, Philadel- phia.	14.34	10.53	9.00
5424	Fetzer's Special Horse Feed, -----	Geo. H. Fetzer, Philadel- phia.	14.03	12.48	10.00
5423	Victory Horse Feed, -----	Geo. H. Fetzer, Philadel- phia.	19.00	10.66	10.00
5344	Victory Horse Feed, -----	Fred. L. Lemont, Phila- delphia.	17.61	9.93	10.00
		Average, -----	18.00	10.30	-----
5100	GLOBE ELEVATOR CO., BUFFA- LO, N. Y. Anchor Horse Feed, -----	Jefferson Flour & Feed Co., Punxsutawney.	16.69	10.55	9-12
5151	Blue Ribbon Horse Feed, -----	Haney-Frazier Milling & Elevator Co., Riverside.	17.08	11.44	9-11

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.57	4.00	6.35	6.00	\$3 75	Crushed oats, cracked corn, crushed barley, wheat bran, molasses.	As certified, -----	5379
1.48	1.50	10.09	15.00	3.50	Corn, oats, alfalfa meal and molasses.	As certified, -----	5557
1.78	1.50	15.51	15.00	60 00	Corn, oats, alfalfa meal and molasses.	As certified, -----	5082
2.55	2.50	10.64	12.00	3 30	Ground corn, oats, ground alfalfa and molasses.	As certified, -----	5075
2.65	2.50	9.08	12.00	53 00	Mixture of ground corn, oats, ground alfalfa and molasses.	As certified, -----	4886
2.60	-----	9.86	-----	59 50			
1.88	1.00	10.92	16.00	48 00	Ground corn, oats, ground alfalfa, ground screenings and molasses.	Ground corn, oats, ground alfalfa, ground screenings, barley hulls, clipped oat by-product, molasses and small amount small weed seeds.	5597
2.09	2.00	15.19	16.00	59 00	Cracked corn, crushed oats, alfalfa meal, oat meal mill by-product, oat shorts, oat middlings, oat hulls, cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5321
0.82	1.00	15.68	25.00	2 80	Alfalfa meal and molasses.	As certified, -----	5346
3.01	1.50	10.42	16.00	2 50	Cracked corn, crushed oats, clipped oat by-products, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	Cracked corn, crushed oats, clipped oat by-product, alfalfa meal, barley, molasses and small amount small whole weed seeds.	5340
4.15	3.20	9.84	8.00	58 00	Crushed oats, cracked corn, alfalfa meal, molasses and 1% salt.	As certified, -----	5424
2.66	3.00	12.18	10.00	54 00	Crushed oats, cracked corn, alfalfa meal, molasses and 1% salt.	Crushed oats, cracked corn, alfalfa meal, molasses, salt and small amount whole weed seeds.	5423
3.64	3.00	10.89	10.00	3 00	Crushed oats, cracked corn, alfalfa meal, molasses and 1% salt.	As certified, -----	5344
3.15	-----	11.53	-----	57 00			
3.71	3-5	5.50	7-9	3 25	Cracked corn, crushed and ground oats, crushed barley, corn bran, cane molasses, salt $\frac{3}{4}$ of 1%.	Cracked corn, crushed and ground oats, crushed barley, corn bran, molasses and salt. Mouldy and damaged.	5100
2.00	2-4	10.42	12-14	3 50	Cracked corn, oats, barley, shredded alfalfa, cane molasses, salt $\frac{3}{4}$ of 1%.	As certified, -----	5151

TABLE III.—ANALYSES OF SAMPLES OF

Chemists' number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4965	Blue Ribbon Horse Feed, -----	Morrisdale Grain & Feed Co., Morrisdale.	Per et. 14.59	Per et. 11.19	Per et. 9-11
5318	Blue Ribbon Horse Feed, -----	Standard Feed Co., Wilkes-Barre.	15.51	10.36	9-11
	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL.	Average, -----	15.72	11.00	-----
5616	Golden Grain Horse & Mule Feed, --	Charles Hieber & Co., Philadelphia.	15.42	10.41	9.00
5618	Keystone Horse & Mule Feed, -----	Charles Hieber & Co., Philadelphia.	15.10	8.65	9.00
5533	Mascot Horse & Mule Feed, -----	James B. Hayward & Son, Monongahela.	18.74	10.90	9.00
5615	Maseot Horse & Mule Feed, -----	Charles Hieber & Co., Philadelphia.	18.77	8.60	9.00
		Average, -----	18.75	9.75	-----
5617	Percheron Horse & Mule Feed, -----	Charles Hieber & Co., Philadelphia.	15.66	9.82	9.00
	GRAIN BELT MILLS CO., SOUTH ST. JOSEPH, MO.				
4997	Broncho Horse & Mule Feed, -----	F. W. Scott, Hays, -----	17.76	10.92	10.00
4914	Extra Brand Horse & Mule Feed, ----	Davidson Brothers, Bedford.	16.77	10.18	9.66
4915	*Greenleaf Alfalfa Molasses Feed, ----	R. H. Lysinger & Son, Bedford.	15.17	11.89	10.00
	GREER BROTHERS, PHILADELPHIA, PA.				
4955	*Soft Feed, -----	Greer Brothers, Philadelphia.	15.55	11.54	-----
	HALES & EDWARDS CO., CHICAGO, ILL.				
4926	Greeno Feed, -----	Stager Co., New Brighton,	16.93	11.75	10.00
5086	Harvest Horse Feed, -----	Hoffer & Garman, Harrisburg.	16.84	12.27	10.00
5484	Harvest Horse Feed, -----	Keystone Supply Co., Jeanette.	14.50	10.63	10.00
4840	Harvest Horse Feed, -----	McFarland Supply Co., Greensburg.	16.36	12.63	10.00
		Average, -----	15.90	11.85	-----
5530	Kingfalfa Horse Feed, -----	D. E. Gamble, Monongahela City.	16.07	10.56	10.00
4930	Kingfalfa Horse Feed, -----	Stager Co., New Brighton,	15.10	12.47	10.00
		Average, -----	15.58	11.52	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.12	Per ct. 2-4	Per ct. 10.26	Per ct. 12-14	\$3 25	Cracked corn, oats, barley, shredded alfalfa, cane molasses, salt $\frac{3}{4}$ of 1%.	Cracked corn, oats, shredded alfalfa, molasses and salt.	4965
2.76	2-4	9.10	12-14	3 25	Cracked corn, oats, barley, shredded alfalfa, cane molasses, salt $\frac{3}{4}$ of 1%.	As certified, -----	5318
2.30	-----	9.92	-----	3 33			
1.95	2.00	11.12	14.00	3 25	Corn, oats, alfalfa meal, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	5616
1.80	1.50	13.28	18.00	2 80	Corn, oats, alfalfa meal, ground grain screenings, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	5618
1.54	1.50	13.45	18.00	3 10	Corn, oats, alfalfa meal, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	5533
1.60	1.50	12.26	18.00	3 00	Corn, oats, alfalfa meal, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	5615
1.57	-----	12.85	-----	3 05			
2.40	2.00	10.75	12.00	3 35	Corn, oats, alfalfa meal, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	5617
1.89	1.50	11.97	15.00	2 90	Corn, oats, alfalfa, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4997
1.81	2.00	10.56	14.00	3 00	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4914
0.74	0.75	16.57	26.00	2 90	Alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4915
4.02	-----	10.57	-----	2 65	Cut hay, cracked corn, oats, bran, Pul-mor horse feed, salt.	Cut hay, cracked corn, wheat bran, oats, alfalfa meal, oat middlings, oat hulls, oat shorts, flax plant refuse, molasses and salt.	4955
0.63	0.50	16.62	28.00	2 65	Alfalfa and molasses,-----	As certified, -----	4926
2.13	2.00	11.45	15.00	3 00	Alfalfa, molasses, cracked corn, oats and barley.	Alfalfa meal, cracked corn, oats and molasses.	5086
2.09	2.00	12.61	15.00	60 00	Alfalfa, molasses, cracked corn, oats and barley.	As certified, -----	5484
1.44	2.00	14.16	15.00	3 00	-----	Alfalfa meal, cracked corn, crushed oats and molasses.	4846
1.89	-----	12.74	-----	60 00			
2.58	2.00	13.30	15.00	3 25	Alfalfa, molasses, cracked corn, oats and barley.	As certified, -----	5530
2.63	2.00	9.79	15.00	3 00	Alfalfa, molasses, cracked corn, oats and barley.	As certified, -----	4930
2.61	-----	11.54	-----	3 13			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4890	H. L. HALLIDAY MILLING CO., CARIO, ILL. Halliday's Popular Molasses Mixed Feed.	Walton Brothers, Philadelphia.	Per ct. 17.51	Per ct. 9.66	Per ct. 9.00
5072	DWIGHT E. HAMLIN, PITTSBURGH, PA. Hamlin's Quality Feed, -----	The D. G. Bamford Milling Co., Midway.	16.96	10.06	9.00
5481	Hamlin's Quality Feed, -----	J. Harvey Miller, Ligonier.	17.41	9.54	9.00
5637	Hamlin's Quality Feed, -----	L. F. Miller & Sons, Philadelphia.	15.22	9.26	9.00
5473	Hamlin's Quality Feed, -----	Shamokin Milling Co., Shamokin.	17.73	10.05	9.00
		Average, -----	16.83	9.73	-----
4949	H. & S. Horse, Mule and Dairy Feed.	Washington Coates Est., Philadelphia.	17.51	14.27	14.00
5472	H. & S. Horse, Mule and Dairy Feed.	Shamokin Milling Co., Shamokin.	18.68	12.22	14.00
		Average, -----	18.09	13.25	-----
5382	THE H.-O. CO., BUFFALO, N. Y. Horse Feed with Molasses, -----	Clyde D. Duffee, Oil City,	11.17	12.13	11.00
5381	New England Stock Feed (Special),---	Clyde D. Duffee, Oil City,	12.08	10.94	9.50
4749	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. Dan Patch Horse Feed, -----	Geo. Walter & Son, Butler.	14.21	13.22	9.00
5396	JOHNSTON & CO., FRANKLIN, PA. Venango Molasses Horse Feed, ----	Johnston & Co., Franklin,	13.73	10.35	10.11
4831	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Evergreen Feed, -----	Blank & Gottshall, Sunbury.	9.99	14.03	12.00
4839	Badger Horse Feed, -----	McFarland Supply Co., Greensburg.	15.86	12.27	10.00
5461	Badger Horse Feed, -----	E. C. Noll, Lewisburg, --	15.15	10.69	10.00
		Average, -----	15.50	11.48	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.88	Per ct. 2.00	Per ct. 11.57	Per ct. 15.00	\$49 00	Corn, oats, ground grain screenings (from corn and oats), alfalfa meal and molasses.	As certified, -----	4890
2.14	2.00	11.62	10.00	3 00	Corn, oats, alfalfa and cane syrup.	As certified, -----	5072
2.00	1.50	13.07	12.00	3 75	Corn, oats, alfalfa and cane syrup.	As certified, -----	5481
1.89	1.50	12.36	12.00	54 00	Corn, oats, alfalfa and cane syrup.	As certified, -----	5667
1.72	1.50	13.67	12.00	3 70	Corn, oats, alfalfa and cane syrup.	As certified, -----	5473
1.94	-----	12.63	-----	65 75			
2.28	3.50	13.20	16.00	3 00	Crushed flax seed meal, old process oil meal, alfalfa meal, dried brewers' grains, pure cane syrup, $\frac{1}{2}$ of 1% salt and cottonseed meal.	As certified, -----	4949
1.66	2.00	12.11	12.00	3 70	Crushed flax seed meal, old process oil meal, alfalfa meal, dried brewers' grains, pure cane syrup, $\frac{1}{2}$ of 1% salt and cottonseed meal.	Alfalfa meal, brewers' dried grains, corn distillers' dried grains, molasses and salt.	5472
1.97	-----	12.65	-----	3 35			
3.78	4.00	9.22	9.00	3 40	Oats, oat shorts, ground corn, oat hulls, wheat midds, hominy feed, linseed oil meal, molasses, salt $\frac{1}{2}$ of 1%.	As certified, -----	5382
3.90	4.00	7.65	9.75	3 50	Ground barley, ground corn, hominy feed, linseed oil meal, wheat midds (with mill run screenings), molasses, salt $\frac{1}{2}$ of 1%, oat hulls and oat shorts, not over 500 lbs. per ton.	As certified, -----	5381
2.59	3.00	9.51	15.00	3 50	Oats, cracked corn, alfalfa, molasses, salt.	As certified, -----	4749
3.80	4-5	5.53	6-7	3 05	Corn, oats, bran and molasses.	As certified, -----	5396
1.02	0.50	26.06	30.00	-----	Alfalfa meal, molasses and salt.	Alfalfa meal, flax plant refuse, molasses and salt.	4831
2.22	2.00	10.91	12.00	3 00	Corn, oats, alfalfa meal, salt, molasses.	Corn, oats, alfalfa meal, flax plant refuse, molasses and salt.	4839
2.25	2.00	13.95	12.00	3 00	Corn, oats, alfalfa meal, salt, molasses.	Corn, oats, alfalfa meal, molasses, salt and small amount whole weed seeds.	5461
2.24	-----	12.43	-----	3 60			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4752	Blue Top Horse Feed, -----	G. W. Engle, Hazleton, --	Per ct. 17.34	Per ct. 12.26	Per ct. 10.00
5436	Blue Top Horse Feed, -----	J. B. Roux, Farrell, ----	17.28	11.52	10.00
4888	Blue Top Horse Feed, -----	Walton Brothers, Phila- delphia.	17.17	11.63	10.00
		Average, -----	17.26	11.80	-----
4719	Cream City Horse Feed, -----	H. J. Klingler & Co., But- ler.	10.89	13.10	10.00
4892	Cream City Horse Feed, -----	Walton Brothers, Phila- delphia.	17.44	11.40	10.00
		Average, -----	14.16	12.25	-----
5338	Krause Horse Feed, -----	Frank Cockerill, Philadel- phia.	15.39	10.11	10.00
4953	Krause Horse Feed, -----	Greer Brothers, Philadel- phia.	15.75	11.63	10.00
4891	Krause Horse Feed, -----	Walton Brothers, Phila- delphia.	17.39	12.03	10.00
		Average, -----	16.17	11.29	-----
5343	Longcope's Special, -----	Chas. H. Longcope, Phila- delphia.	16.83	10.62	10.00
5633	Mor-Pul Horse Feed, -----	L. F. Miller & Sons, Philadelphia.	15.28	9.76	9.00
5602	Mor-Pul Horse Feed, -----	Walton Brothers, Phila- delphia.	8.78	12.96	9.00
		Average, -----	12.03	11.36	-----
5628	*Pep Horse Feed, -----	C. D. Chamberlain, South Brownsville.	12.19	11.59	10.00
5339	*Pep Horse Feed, -----	Frank Cockerill, Philadel- phia.	15.85	10.89	10.00
		Average, -----	14.02	11.24	-----
4948	Pul-Mor Horse Feed, -----	Washington Coates Est., Philadelphia.	16.44	10.54	9.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
1.47	1.00	13.08	16.00	\$3 50	Corn, o a t s, alfalfa meal, salt, molasses.	As certified, -----	4752
1.89	1.00	13.73	16.00	3 00	Corn, o a t s, alfalfa meal, salt, molasses.	Corn, oats, alfalfa meal, flax plant refuse, molasses and salt.	5436
1.53	1.00	13.62	16.00	48 60	Corn, o a t s, alfalfa meal, molasses and salt.	Corn, oats, alfalfa meal, flax plant refuse, molasses and salt.	4888
1.83	-----	13.47	-----	59 33			
2.21	1.50	14.96	14.00	3 30	Corn, o a t s, alfalfa meal, molasses and salt.	As certified, -----	4719
1.82	1.50	11.38	14.00	52 00	Corn, o a t s, alfalfa meal, molasses and salt.	Corn, oats, alfalfa meal, flax plant refuse, molasses and salt.	4892
2.02	-----	13.17	-----	59 00			
2.85	2.50	11.02	10.00	3 60	Corn, o a t s, alfalfa, molasses, salt.	Corn, oats, alfalfa meal, molasses and salt. Sample somewhat damaged. Meal mites present.	5338
2.29	2.50	8.30	10.00	2 85	Corn, o a t s, alfalfa, molasses, salt.	Corn, oats, alfalfa meal, flax plant refuse, molasses and salt.	4953
2.44	2.50	7.30	10.00	54 00	Corn, o a t s, alfalfa, molasses, salt.	As certified, -----	4891
2.53	-----	8.87	-----	57 00			
2.62	2.50	11.45	10.00	60 00	Corn, o a t s, alfalfa, molasses, salt.	Corn, oats, alfalfa meal, molasses and salt. Sample somewhat damaged. Meal mites present.	5343
1.74	1.00	14.10	15.00	47 00	Corn, o a t s, alfalfa meal, ground and bolted grain screenings, molasses and salt.	As certified, -----	5636
3.38	1.00	14.35	15.00	47 00	Corn, o a t s, alfalfa meal, ground and bolted grain screenings, molasses and salt.	As certified, -----	5602
2.56	-----	14.22	-----	47 00			
3.90	3.00	9.52	10.00	67 00	Corn, o a t s, alfalfa meal, molasses and salt.	As certified, -----	5628
3.93	2.00	8.89	10.00	3 15	Corn, o a t s, alfalfa meal, molasses and salt.	Corn, oats, alfalfa meal, molasses, salt and small amount whole weed seeds.	5339
3.92	-----	9.20	-----	65 00			
1.49	1.00	15.76	9.00	2 60	Corn, o a t s, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	4948

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4954	Pul-Mor Horse Feed, -----	Greer Brothers, Philadelphia.	Per ct. 16.55	Per ct. 9.97	Per ct. 9.60
5415	Pul-Mor Horse Feed, -----	H. & L. Kugler, Philadelphia.	17.28	9.54	9.00
5345	Pul-Mor Horse Feed, -----	Fred L. Lemont, Philadelphia.	14.88	10.35	9.00
5341	Pul-Mor Horse Feed, -----	Chas. H. Longcope, Philadelphia.	18.55	11.17	9.00
5412	Pul-Mor Horse Feed, -----	L. F. Miller & Sons, Philadelphia.	18.11	9.86	9.00
5420	Pul-Mor Horse Feed, -----	E. L. Shute & Co., Philadelphia.	16.97	10.24	9.00
5336	Pul-Mor Horse Feed, -----	Max Supowitz, Philadelphia.	16.97	8.93	9.00
4887	Pul-Mor Horse Feed, -----	Walton Brothers, Philadelphia.	17.45	11.90	9.00
		Average, -----	17.02	10.28	-----
5463	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Harteno Horse Food, -----	New Model Milling Co., Oil City.	10.15	12.75	10.94
5361	Unus Horse and Mule Feed, -----	J. P. Morrison, Ellwood City.	14.39	11.90	9.00
5623	LANCASTER MILL & ELEVATOR CO., LANCASTER, PA. Lancaster Alfalfa Horse Feed, -----	Ezl. Dunwoody Co., Philadelphia.	11.62	11.19	10.00
5600	Lancaster Alfalfa Horse Feed, -----	Walton Brothers, Philadelphia.	14.65	10.94	10.00
		Average, -----	13.13	11.07	-----
4957	Lancaster Horse Feed, -----	L. F. Miller & Sons, Philadelphia.	16.60	10.33	10.00
5607	Red Rose Horse Feed, -----	David McMullin, Jr., Philadelphia.	15.23	10.72	10.00
5188	Tally-Ho Horse Feed, -----	O. S. Ebersole, Penbrook,	18.36	9.83	7.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.48	Per ct. 1.00	Per ct. 13.29	Per ct. 9.00	\$2 60	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	4954
1.48	1.00	14.91	9.00	2 65	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	5415
1.71	1.00	14.26	9.00	2 80	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	5345
1.28	1.00	12.84	9.00	53 00	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	5341
1.26	1.00	13.94	9.00	48 00	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	5412
1.82	1.00	16.10	16.00	49 00	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	5420
1.55	1.00	14.43	9.00	49 00	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	5336
1.29	1.00	13.17	9.00	47 00	Corn, oats, alfalfa, molasses, salt, oat hulls, oat middlings, oat shorts and flax plant refuse.	As certified, -----	4887
1.48	-----	14.30	-----	51.00			
4.75	4.59	1.97	6.35	3 75	Corn, bran, oats, molasses.	Corn, corn bran, oats and molasses.	5403
3.94	2.50	10.25	12.00	3 30	Corn, oats, alfalfa, molasses.	As certified, -----	5361
2.82	2.00	13.82	16.00	61 00	Alfalfa meal, cracked corn, crushed oats, molasses and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, cracked corn, crushed oats, cottonseed meal, molasses and salt.	5623
2.58	2.50	11.32	14.00	57 00	Alfalfa meal, cracked corn, crushed oats, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5600
2.70	-----	12.57	-----	59 00			
2.77	2.50	11.52	14.00	51 00	Alfalfa, hay meal, cracked corn, rolled oats, $\frac{1}{2}$ of 1% salt and cane molasses.	As certified, -----	4957
3.83	3.00	10.37	14.00	63 00	Alfalfa, cracked corn, crushed oats, molasses, $\frac{1}{2}$ of 1% salt.	As certified, -----	5607
2.23	2.00	14.06	16.00	3 00	Cracked corn, crushed oats, alfalfa meal, oat meal mill by-product (oat middlings, oat shorts, oat hulls), cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5188

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5094	Tally-Ho Horse Feed, -----	Paxton Flour & Feed Co., Harrisburg.	Per ct. 15.45	Per ct. 9.53	Per ct. 7.00
		Average, -----	16.90	9.68	-----
5397	J. H. LAVERY'S SONS, FRANK- LIN, PA. Franklin Horse Feed, -----	J. H. Lavery's Son's, Franklin.	16.57	10.44	10.00
4960	CHAS. H. LONGCOPE, PHILA- DELPHIA, PA. Longcope's Special Horse Feed, ----	Chas. H. Longcope, Phila- delphia.	16.19	12.29	10.00
5613	L. F. MILLER & SONS, PHILA- DELPHIA, PA. "Epoch" Horse Feed, -----	John G. Schaal's Sons, Philadelphia.	15.24	11.71	5.00
4710	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Formerly Horse Feed with Alfalfa.	F. W. Dawson & Son, Williamsport.	12.58	11.71	9.00
5266	Domino Formerly Horse Feed with Alfalfa.	Lebanon Milling Co., Leb- anon.	17.55	11.34	9.00
		Average, -----	15.06	11.53	-----
5526	OMAHA ALFALFA MILLING CO., OMAHA, NEBR. Alfalmo Feed, -----	Western Flour Co., Char- leroi.	18.20	10.98	10.00
5417	Grainfalmo Horse Feed, -----	W. S. Woodward & Co., Philadelphia.	16.95	12.21	9.00
5537	M. C. PETERS MILL CO., OMAHA, NEBR. King Corn Horse & Mule Feed, ----	R. C. Mountser, Char- leroi.	17.56	10.83	10.00
5562	Rabbit Mule Feed, -----	Ekin Brothers, Vander- grift.	15.93	10.27	10.00
5536	Sell-A-Gen Horse & Mule Feed, ----	R. C. Mountser, Char- leroi.	17.56	10.83	10.00
5013	PRAIRIE STATE MILLING CO., CHICAGO, ILL. Emerald Brand Horse Feed, -----	J. H. Hershberger & Son, Johnstown.	15.54	9.75	10.00
4883	Emerald Brand Horse Feed, -----	Richey & McFarland, Car- negie.	18.38	10.03	10.00
		Average, -----	16.96	9.89	-----
4934	PURITY OATS CO. OF DAVEN- PORT, DAVENPORT, IOWA. Iowa Horse Feed, -----	W. W. McCullough, West Bridgewater.	16.29	9.72	9.00
4966	Iowa Horse Feed, -----	Morrisdale Grain & Feed Co., Morrisdale.	13.96	10.85	9.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.08	Per ct. 2.00	Per ct. 13.20	Per ct. 16.05	\$2 85	Cracked corn, crushed oats, alfalfa meal, oat meal mill by-product (oat middlings, oat shorts, oat hulls), cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5694
2.16	-----	13.63	-----	2 93			
3.91	4.00	6.72	9.00	3 50	Crimped oats, cracked corn, wheat bran and molasses.	As certified, -----	5397
2.13	2.50	10.32	10.00	3 15	Corn, oats, alfalfa meal, salt and molasses.	As certified, -----	4960
2.65	1.00	13.10	20.00	3 00	Corn, oats, alfalfa meal, molasses.	As certified, -----	5613
2.58	2.00	13.30	14.00	3 90	Crushed oats, cracked corn, whole oats, ground alfalfa, molasses, salt $\frac{3}{4}$ of 1%.	As certified, -----	4710
2.57	3.00	13.78	14.00	3 00	Crushed oats, cracked corn, whole oats, ground alfalfa, molasses, salt $\frac{3}{4}$ of 1%.	As certified, -----	5266
2.58	-----	13.54	-----	3 45			
0.78	0.50	15.18	25.00	55 00	Alfalfa meal and syrup,	As certified, -----	5520
2.04	1.50	12.88	18.00	2 80	Corn, oats, alfalfa meal, molasses.	As certified, -----	5417
1.67	1.50	11.41	18.00	3 20	Corn, oats, alfalfa and molasses.	As certified, -----	5537
1.73	1.50	13.32	18.00	3 50	Corn, oats, alfalfa and molasses.	As certified, -----	5562
2.26	2.00	13.74	20.00	3 10	Oats, alfalfa and molasses.	As certified, -----	5536
2.13	2.00	10.46	12.00	3 00	Cracked corn, oats, barley, alfalfa meal and molasses.	As certified, -----	5013
1.32	2.00	10.67	12.00	3 10	Cracked corn, oats, barley, alfalfa meal and molasses.	As certified, -----	4883
1.73	-----	10.23	-----	3 05			
2.12	2.00	9.47	9.00	3 00	Corn, oats, alfalfa meal, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and molasses.	As certified, -----	4934
1.85	2.00	10.40	9.00	3 50	Corn, oats, alfalfa meal, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and molasses.	As certified, -----	4966

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4861	Iowa Horse Feed, -----	F. E. Painter, Mt. Pleasant.	Per ct. 14.62	Per ct. 10.17	Per ct. 9.00
	THE QUAKER OATS CO., CHICAGO, ILL.	Average, -----	14.95	10.25	-----
5354	*Green Cross Horse Mixed Feed with Molasses.	S. J. Chambers, New Castle.	17.35	10.73	10.00
4789	*Green Cross Horse Mixed Feed with Molasses.	M. H. Clark, Uniontown,	12.65	11.41	10.00
5622	*Green Cross Horse Mixed Feed with Molasses.	Ezl. Dunwoody Co., Philadelphia.	14.08	10.50	10.00
4864	*Green Cross Horse Mixed Feed with Molasses.	F. E. Painter, Mount Pleasant.	14.13	11.22	10.00
5414	*Green Cross Horse Mixed Feed with Molasses.	L. F. Miller & Sons, Philadelphia.	14.78	10.43	10.00
4780	*Green Cross Horse Mixed Feed with Molasses.	C. W. Royer & Co., Tamaqua.	13.75	11.65	10.00
5257	*Green Cross Horse Mixed Feed with Molasses.	E. Stricklers Sons, Lebanon.	18.53	9.60	10.00
4889	*Green Cross Horse Mixed Feed with Molasses.	Walton Brothers, Philadelphia.	16.25	10.15	10.00
5599	*Green Cross Horse Mixed Feed with Molasses.	Walton Brothers, Philadelphia.	14.12	10.41	10.00
		Average, -----	15.07	10.68	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.99	Per ct. 2.00	Per ct. 10.27	Per ct. 9.00	\$3 00	Corn, oats, alfalfa meal, oat meal mill by-product (oat shorts, oat hulls, oat middlings), and molasses.	As certified, -----	4861
1.99	-----	10.04	-----	3 17			
2.32	2.50	12.52	12.00	3 25	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, oat middlings, oat hulls, oat shorts, molasses, salt and small amount whole weed seeds.	5354
2.44	2.50	10.55	12.00	3 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	4789
2.65	2.50	11.46	12.00	59 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	5622
2.22	2.50	13.14	12.00	3 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	4864
2.57	2.50	11.20	13.00	59 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	5414
2.62	2.50	12.12	12.00	2 75	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	4780
2.52	2.50	11.19	12.00	3 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	5257
2.42	2.50	12.82	12.00	53 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	4886
2.85	2.50	10.11	13.50	56 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified, -----	5560
2.51	-----	11.68	-----	58 56			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	RALSTON PURINA CO., INC., ST. LOUIS, MO.		Per ct.	Per ct.	Per ct.
4902	Good Luck Feed with Molasses, ----	Huntingdon Milling Co., Huntingdon.	14.70	12.38	9.00
4845	Good Luck Feed with Molasses, ----	Latrobe Feed Supply Co., Latrobe.	15.66	11.72	9.00
		Average, -----	15.18	12.05	-----
5328	*Protena Horse Feed, -----	A. L. Heckman, Ship-pensburg.	17.48	10.69	9.00
5603	*Protena Horse Feed, -----	David McMullin, Philadel-phia.	18.07	10.71	9.00
4893	*Protena Horse Feed, -----	Walton Brothers, Phila-delphia.	17.19	11.67	9.00
		Average, -----	17.58	11.02	-----
5214	Purina O'Molene Feed, -----	DuBois Milling Co., Du-Bois.	15.76	10.64	9.70
5604	Purina O'Molene Feed, -----	David McMullin, Jr., Philadelphia.	14.93	10.33	9.70
4977	Purina O'Molene Feed, -----	J. T. Murphy, Clearfield,	14.50	10.56	9.70
5116	Purina O'Molene Feed, -----	L. A. Shaffer, Big Run,--	14.86	10.71	9.70
5337	Purina O'Molene Feed, -----	Max Supowitz, Philadel-phia.	16.11	11.14	9.70
		Average, -----	15.23	10.68	-----
	ROSENBAUM BROTHERS, CHI-CAGO, ILL.				
5538	Rosebro Horse Feed, -----	R. C. Mountser, Char-leroi.	13.89	16.82	10.00
5736	Rosebro Horse Feed, -----	St. Clair, Rinn & Co., In-diana.	10.90	12.44	10.00
5657	Rosebro Horse Feed, -----	Washington Grain & Feed Co., Washington.	13.98	10.43	10.00
		Average, -----	12.92	11.32	-----
5639	Vitality Horse Feed, -----	Purdy Brothers, Sewickley,	16.53	9.69	10.00
5524	Vitality Horse Feed, -----	Western Flour Co., Char-leroi.	15.38	12.19	10.00
		Average, -----	15.95	10.94	-----
5732	Will-Pay Stock Feed, -----	St. Clair, Rinn & Co., In-diana.	9.87	8.04	16.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Guaranteed.	Found.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
2.40	1.50	13.20	15.00	\$3 25	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4902
2.32	1.50	11.65	15.00	3 25	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4845
2.36	-----	12.42	-----	3 25			
1.75	1.50	14.84	15.00	3 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	5328
1.75	1.50	14.85	15.00	55 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	5603
2.25	1.50	15.47	15.00	50 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4893
1.92	-----	15.05	-----	55 00			
3.65	3.20	6.74	8.00	3 45	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	5214
4.27	3.20	8.02	8.00	66 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	5604
3.54	3.20	7.62	8.00	3 75	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4977
3.61	3.20	6.44	8.00	3 50	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	5116
3.86	3.20	7.74	8.00	3 25	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	5337
3.79	-----	7.31	-----	69 00			
3.58	2.00	5.62	15.00	3 40	Sifted cracked corn, crushed oats, crushed barley, alfalfa meal and molasses.	As certified, -----	5538
4.26	2.00	10.10	15.00	3 40	Sifted cracked corn, crushed oats, crushed barley, alfalfa meal and molasses.	As certified, -----	5730
3.92	2.00	10.53	15.00	3 70	Sifted cracked corn, crushed oats, crushed barley, alfalfa meal and molasses.	As certified, -----	5657
3.90	-----	8.76	-----	3 50			
1.76	2.00	12.39	15.00	3 15	Sifted cracked corn, crushed oats, crushed barley, alfalfa meal and molasses.	As certified, -----	5639
2.45	2.00	9.26	16.00	64 00	Shelled cracked corn, crushed oats, crushed barley, alfalfa meal and molasses.	As certified, -----	5524
2.10	-----	10.82	-----	63 50			
1.77	0.50	11.88	26.00	3 00	Alfalfa meal and molasses.	As certified, -----	5732

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
	THE SHEETS ELEVATOR CO., CLEVELAND, OHIO.		Per ct.	Per ct.	Per ct.
5688	*Diamond Horse Feed, -----	Erie Milling & Supply Co., Erie.	12.19	11.85	9.50
5676	*Diamond Horse Feed, -----	Nickel Plate Flour Mills, Erie.	13.85	10.13	9.50
		Average, -----	13.02	10.99	-----
5421	E. L. SHUTE & CO., PHILADELPHIA, PA. Challenge Alfalfa Horse Feed, -----	E. L. Shute & Co., Philadelphia.	16.07	11.20	9.00
5422	Shute's Special Horse Feed, -----	E. L. Shute & Co., Philadelphia.	17.26	11.06	10.00
5724	THE SUGARINE CO., PEORIA, ILL. Ideal Horse Feed with Alfalfa, -----	J. N. Rodkey, Frankstown.	9.19	12.06	16.00
4913	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Invincible Alfalfa Feed, -----	Francis Baker, Everett, --	15.98	12.35	10.00
5324	VIRGINIA FEED & MILLING CORPORATION, ALEXANDRIA, VA. Fairfax Horse & Mule Feed, -----	Ezl. Dunwoody Co., Philadelphia.	13.27	10.59	10.00
5416	V. C. Home Mixture Horse Feed, --	H. & L. Kugler, Philadelphia.	16.23	11.14	10.00
4959	WASH-CO. ALFALFA MILLING CO., FT. CALHOUN, NEB. Alfageen, -----	Chas. H. Longcope, Philadelphia.	17.36	10.82	-----
5614	Special Horse Feed, -----	John G. Schaal's Sons, Philadelphia.	15.21	10.65	10.00
5407	F. S. WERTZ & SON, READING, PA. Faramel Horse Feed, -----	F. S. Wertz & Son, Reading.	16.79	10.19	9.60
5406	"Our Own" Alfalfa Molasses Horse & Mule Feed.	F. S. Wertz & Son, Reading.	15.53	11.57	9.60
4742	THE WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Calumet Alfalfa Horse Feed, -----	Geo. Ifft & Sons, Evans City.	12.45	12.97	10.00
5418	W. S. WOODWARD & CO., PHILADELPHIA, PA. U. T. Feed, -----	W. S. Woodward & Co., Philadelphia.	15.86	11.82	-----
	PROPRIETARY CALF MEALS.				
4739	ARCADY FARMS MILLING CO., RONDOUT, ILL. Arcady Calf Meal, -----	Thompson & Glenn, Butler.	8.91	23.94	25.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
3.81	3.75	10.51	9.00	\$3 20	Corn, oats, oat feed, molasses.	As certified, -----	5638
3.81	3.75	7.94	9.00	56 00	Corn, oats, oat feed, molasses.	Corn, oats, oat midlings, oat hulls, corn siftings and molasses.	5676
3.81	-----	9.22	-----	60 00			
2.53	1.50	12.73	16.00	52 50	Cracked corn, crushed oats, alfalfa meal, molasses, clipped oats by-product, $\frac{1}{2}$ of 1% salt.	As certified, -----	5421
3.16	3.00	9.85	14.00	66 00	Crushed oats, cracked corn, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	5422
5.28	2.50	12.55	12.00	3 25	Molasses, alfalfa, corn oats, barley and salt.	As certified, -----	6724
2.60	2.00	9.96	12.00	3 25	Corn, oats, alfalfa meal and molasses.	As certified, -----	4913
1.80	3.00	14.11	20.00	54 00	Cracked corn, rolled oats, alfalfa meal and cane molasses.	As certified, -----	5624
1.97	2.00	10.77	15.00	3 10	-----	Corn, oats, alfalfa meal and molasses.	5416
1.06	-----	15.25	-----	2 60	Alfalfa and molasses,---	As certified, -----	4959
2.24	2.00	10.81	15.00	3 20	Corn, oats, alfalfa and molasses.	As certified, -----	5614
3.82	4.00	6.53	6.00	3 40	Crushed oats, cracked corn, wheat bran and molasses.	As certified, -----	5407
2.43	2.00	10.43	15.00	3 25	Crushed oats, cracked corn, alfalfa, molasses.	As certified, -----	5406
2.76	2.50	10.93	15.00	3 25	Crushed corn, oats, alfalfa meal, linseed meal, molasses and salt.	Crushed corn, oats, alfalfa meal, linseed oil meal, barley, molasses, salt and small amount small whole weed seeds.	4742
3.42	-----	11.00	-----	3 75	Green Meadow Dairy Feed, rolled oats, cracked corn.	Alfalfa meal, rolled oats, cracked corn and molasses.	5418
5.83	5.00	5.55	7.00	4.85	Wheat flour, malt flour, linseed oil meal, cottonseed oil meal, powdered milk and salt.	As certified, -----	4739

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5033	BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL. Blatchford's Calf Meal, -----	Spanogle-Yeager Milling Co., Lewistown.	Per ct. 9.97	Per ct. 29.38	Per ct. 24.00
5719	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Calf Meal, -----	Duncannon Flouring Mill Co., Duncannon.	9.30	25.31	25.00
5160	Clover Leaf Mills Calf Meal, -----	Haney-Frazier Milling & Elevator Co., Riverside.	9.33	28.00	25.00
5326	Clover Leaf Mills Calf Meal, -----	W. S. Stuart, Carlisle, --	9.37	27.94	25.60
		Average, -----	9.33	27.08	-----
4875	HALES & EDWARDS CO., CHICAGO, ILL. Red Horn Calf Meal for Baby Calves.	Johnston & Smith, Wilkinsburg.	11.13	17.56	18.00
5191	RALSTON PURINA CO., INC., ST. LOUIS, MO. Purina Calf Chow, -----	O. S. Ebersole, Penbrook,	10.53	35.19	33.00
5117	Purina Calf Chow, -----	L. A. Shaffer, Big Run, --	11.72	27.69	33.00
		Average, -----	11.12	31.44	-----
5289	RYDE & CO., CHICAGO, ILL. Ryde's Cream Calf Meal, -----	Eulalia Mills, Coudersport,	11.71	25.19	25.00
5230	Ryde's Cream Calf Meal, -----	Leibovitz Feed Mills, Altoona.	10.20	25.19	25.00
		Average, -----	10.95	25.19	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.63	Per ct. 5.00	Per ct. 6.70	Per ct. 6.75	\$5 60	Locust bean meal, unpressed flaxseed, wheat flour, blood flour, barley malt sprout meal, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, cocoanut meal, re-cleaned cottonseed meal, foenu-greek, dried milk, anise and salt.	Unpressed flax seed, wheat flour, blood flour, barley and malt sprout meal, ground beans, ground peas, rice polish, old process linseed oil meal, cocoa shell meal, cocoanut oil meal, re-cleaned cottonseed meal, foenu-greek, dried milk, anise and salt.	5033
5.00	5.00	5.50	7.00	6 00	Wheat flour, linseed oil meal, cottonseed meal, pulverized malt flour, oat meal, powdered milk and $\frac{1}{2}$ of 1% salt.	As certified, -----	5710
5.50	5.00	5.95	7.00	5 25	Wheat flour, linseed oil meal, cottonseed meal, pulverized malt flour, oat meal, powdered milk and $\frac{1}{2}$ of 1% salt.	As certified, -----	5160
5.25	5.00	7.70	7.00	5 25	Wheat flour, linseed oil meal, cottonseed meal, pulverized malt flour, oat meal, powdered milk and $\frac{1}{2}$ of 1% salt.	As certified, -----	5326
5.25	-----	6.38	-----	5 50			
4.58	5.00	2.72	6.00	6 00	Dried buttermilk, oat flour, barley flour, red dog flour, corn flour, old process oil meal, alfalfa leaf flour, dextrose and not over 1% calcium carbonate and $\frac{1}{2}$ of 1% salt.	As certified, -----	4875
3.23	4.00	3.47	3.50	5 75	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	5191
2.80	4.00	3.25	3.50	6 00	Blood flour, linseed meal, hominy feed and wheat flour.	Blood flour, linseed oil meal, hominy feed, wheat bran and wheat flour.	5117
3.02	-----	3.36	-----	5 87			
5.70	5.00	6.60	6.00	5 00	Ground flaxseed, wheat flour, locust bean meal, re-cleaned cottonseed meal, blood flour, beans and peas, cocoa shell meal, hominy feed, foenu-greek, anise and salt.	Ground flaxseed, wheat flour, re-cleaned cottonseed meal, blood flour, peas and beans, cocoa shell meal, hominy feed, foenu-greek, anise and salt.	5289
5.40	5.00	6.80	6.00	6 00	Ground flaxseed, wheat flour, locust bean meal, re-cleaned cottonseed meal, blood flour, beans and peas, cocoa shell meal, hominy feed, foenu-greek, anise and salt.	Ground flaxseed, wheat flour, re-cleaned cottonseed meal, blood flour, peas and beans, cocoa shell meal, hominy feed, foenu-greek, anise and salt.	5230
5.55	-----	6.70	-----	5 50			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
PROPRIETARY SWINE FEEDS.					
5245	AMERICAN MILLING CO., PEORIA, ILL. Sucrene Hog Meal, -----	Dannals Milling Co., Altoona.	Per ct. 14.55	Per ct. 20.98	Per ct. 18.06
5465	Sucrene Hog Meal, -----	E. C. Noll, Lewisburg, ---	13.11	20.68	18.00
5003	Sucrene Hog Meal, -----	Geo. Renton & Co., Castle Shannon.	16.33	19.88	18.00
5648	CHAPIN & CO., HAMMOND, IND. Bicorn Hog Feed, -----	Average, -----	14.56	20.85	-----
		C. S. Hunter Co., Washington.	10.27	20.38	17.50
5671	Bicorn Hog Feed, -----	Linesville Milling Co., Linesville.	10.43	20.94	17.50
5708	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Hog Meal, -----	Average, -----	10.35	20.66	-----
		Duncannon Flouring Mill Co., Duncannon.	12.09	18.64	18.00
5741	Clover Leaf Mills Hog Meal, -----	J. H. Smith & Sons, Chambersburg.	10.97	20.42	18.00
5720	CONSOLIDATED DRESSED BEEF CO., PHILADELPHIA, PA. Stock Yard Hog Food, -----	Average, -----	11.53	19.53	-----
		Tyrone Milling Co., Tyrone.	7.89	23.13	25.30

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.15	4.00	5.91	10.00	\$3 75	Molasses, alfalfa meal, corn feed meal, corn germ meal, linseed meal, ground barley, soluble blood flour, peanut meal, cocoanut meal, calcium carbonate and salt.	As certified, -----	5245
6.70	4.00	6.76	10.00	3 65	Molasses, alfalfa meal, corn feed meal, corn germ meal, linseed meal, ground barley, soluble blood flour, peanut meal, cocoanut meal, calcium carbonate and salt.	As certified, -----	5465
4.77	4.00	9.22	10.00	75 00	Molasses, alfalfa meal, corn feed meal, corn germ meal, linseed meal, ground barley, soluble blood flour, peanut meal, cocoanut meal, calcium carbonate and salt.	As certified, -----	5008
5.21	-----	7.29	-----	74 33			
4.30	4.50	5.92	6.00	4 10	Digester tankage, corn germ meal, wheat middlings, hominy feed, corn feed meal, barley, oats, linseed meal, bone meal, corn gluten feed and salt.	As certified, -----	5643
4.40	4.50	5.45	6.00	4 00	Digester tankage, corn germ meal, wheat middlings, hominy feed, corn feed meal, barley, oats, linseed meal, bone meal, corn gluten feed and salt.	As certified, -----	5671
4.35	-----	5.68	-----	4 05			
4.98	5.00	6.77	10.00	3 85	Wheat middlings, digester tankage, corn germ meal, linseed meal, corn feed meal, ground wheat screenings, molasses and $\frac{1}{2}$ of 1% salt.	Wheat middlings, digester tankage, corn germ meal, linseed oil meal, corn feed meal, corn gluten feed, ground wheat screenings, molasses and salt.	5708
4.64	5.00	6.46	10.00	3 85	Wheat middlings, digester tankage, corn germ meal, linseed meal, corn feed meal, ground wheat screenings, molasses and $\frac{1}{2}$ of 1% salt.	Wheat middlings, digester tankage, corn germ meal, linseed oil meal, corn feed meal, ground wheat screenings, molasses, salt and small amount small whole weed seeds.	5741
4.81	-----	6.61	-----	3 85			
8.23	10.00	6.57	-----	60 00	Beef scrap, digester tankage.	Beef scrap, digester tankage and cocoa shell meal.	5720

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
	CORN PRODUCTS REFINING CO., NEW YORK, N. Y.		Per ct.	Per ct.	Per ct.
5071	Diamond Hog Meal, -----	The D. G. Bamford Milling Co., Midway.	9.05	24.06	18.00
5447	Diamond Hog Meal, -----	Boyd Milling Company, Sharon.	10.20	28.00	18.00
5450	Diamond Hog Meal, -----	Bradford & Son, Center Hall.	8.41	21.66	18.00
5128	Diamond Hog Meal, -----	F. H. Dyer, Lock Haven.	16.52	25.19	18.00
5032	Diamond Hog Meal, -----	Spanogle-Yeager Milling Co., Lewistown.	9.67	22.06	18.00
5136	Diamond Hog Meal, -----	E. E. Wentz, Lock Haven.	12.11	22.06	18.00
		Average, -----	9.66	23.74	-----
	THE ALBERT DICKINSON CO., CHICAGO, ILL.				
4785	Rival Hog Feed, -----	King Brothers, Uniontown.	10.17	16.31	12.50
4838	Rival Hog Feed, -----	McFarland Supply Co., Greensburg.	10.20	15.50	12.50
		Average, -----	10.18	15.91	-----
	EDGAR-MORGAN CO., MEMPHIS, TENN.				
4712	Happy Hog Feed, -----	S. Book & Brother, Quarryville.	10.32	21.50	18.00
	HALES & EDWARDS CO.; CHI- CAGO, ILL.				
4872	Pioneer Hog Feed with Dried Butter- milk.	Johnston & Smith, Wilkinsburg.	11.80	14.75	12.00
	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS.				
4995	Badger Hog Feed, -----	H. O. Andrews, Mapleton.	10.96	18.50	15.00
5119	Badger Hog Feed, -----	Earley & Detweiler, Palmyra.	11.37	18.06	15.00
5457	Badger Hog Feed, -----	Mifflinburg Supply Co., Mifflinburg.	10.81	18.44	15.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
7.68	7.00	9.17	13.00	\$3 50	Corn oil cake meal, ----	As certified, -----	5071
7.50	7.00	9.12	13.00	4 10	Corn oil cake meal, ----	As certified, -----	5447
8.18	7.00	10.00	13.00	3 75	Corn oil cake meal, ----	As certified, -----	5450
7.40	7.00	8.67	13.00	3 75	Corn oil cake meal, ----	As certified, -----	5128
13.98	7.00	8.42	13.00	3 50	Corn oil cake meal, ----	As certified, -----	5032
9.45	7.00	9.00	13.00	3 25	Corn oil cake meal, ----	As certified, -----	5136
9.03	-----	9.04	-----	3 64			
4.38	3.00	9.30	12.50	3 00	Linseed oil meal, ground corn, bran, corn feed meal, alfalfa meal, ground screenings from wheat, oats, barley, Kaffir corn and salt.	As certified, -----	4785
4.05	3.00	9.12	12.50	3 00	Linseed oil meal, ground corn, bran, corn feed meal, alfalfa meal, ground screenings from wheat, oats, barley, Kaffir corn and salt.	As certified, -----	4838
4.22	-----	9.21	-----	3 00			
5.13	5.00	7.55	15.60	3 40	Velvet bean feed, coconut meal, corn feed meal, tankage, alfalfa leaves, 1% charcoal and 1% calcium phosphate.	Velvet bean feed, coconut oil meal, corn feed meal, tankage, alfalfa meal, charcoal and calcium phosphate.	4712
6.18	3.00	5.00	12.60	3 75	Corn feed meal, wheat middlings, linseed oil meal, ground and bolted wheat, barley and Kaffir screenings and dried buttermilk.	As certified, -----	4872
4.05	4.75	4.25	7.50	3 50	Hominy feed, corn feed meal, tankage, wheat middlings, corn germ meal, O. P. linseed oil meal and salt, corn gluten feed, corn red-dog flour.	As certified, -----	4905
5.98	4.75	5.65	7.50	70 00	Hominy feed, corn feed meal, tankage, wheat middlings, corn germ meal, O. P. linseed oil meal and salt, corn gluten feed, corn red-dog flour.	Hominy feed, corn feed meal, tankage, wheat middlings, corn germ meal, old process linseed oil meal, corn red-dog flour and salt.	5119
5.15	5.00	6.42	7.50	3 70	Hominy feed, corn feed meal, tankage, wheat middlings, corn germ meal, O. P. linseed oil meal and salt, corn gluten feed, corn red-dog flour, barley.	Hominy feed, corn feed meal, tankage, wheat middlings, corn germ meal, old process linseed oil meal, corn gluten feed, corn red-dog flour, barley, rice, rice hulls and salt.	5457

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5368	Badger Hog Feed, -----	New Castle Feed Co., New Castle.	Per ct. 10.52	Per ct. 17.63	Per ct. 15.00
4894	Badger Hog Feed, -----	Walton Brothers, Philadelphia.	10.59	16.56	15.60
5691	Badger Hog Feed, -----	West Side Feed Co., Erie,	10.89	16.69	15.00
	THE LAROWE MILLING CO., DETROIT, MICH.	Average, -----	10.85	17.65	-----
5227	Larowe Hog Feed, -----	Leibovitz Feed Mills, Altoona.	9.91	20.63	18.00
4823	O. H. McMAHAN, MILTON, PA. *Special Pig Grower, -----	O. H. McMahan, Milton,	9.07	20.06	15.00 to 15.87
5138	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Sweet Hog Feed, -----	J. E. Dubbs, Bellefonte,--	14.04	16.23	15.00
5077	THE PARK & POLLARD CO. OF ILL., CHICAGO, ILL. Go-Tu-It Hog Ration, -----	J. A. Hawk, New Kensington.	9.60	20.19	15.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.33	Per ct. 4.75	Per ct. 6.37	Per ct. 7.50	\$3 40	Badger hominy feed, standard middlings, tankage, corn gluten feed, corn feed meal, O. P. linseed oil meal, corn germ meal, corn maize red-dog, salt.	As certified, -----	5368
4.98	4.75	4.60	7.50	63 00	Hominy feed, corn feed meal, tankage, wheat middlings, corn germ meal, O. P. linseed oil meal and salt, corn gluten feed, corn red-dog flour.	As certified, -----	4894
4.13	5.00	7.90	7.50	3 75	Badger hominy feed, Badger maize corn, red-dog flour, O. P. linseed oil meal, corn meal, corn feed meal, corn germ meal, wheat middlings, tankage, corn gluten feed, barley and salt.	Hominy feed, corn red-dog flour, old process linseed oil meal, corn feed meal, corn germ meal, wheat middlings, tankage, corn gluten feed, barley, rice hulls and salt.	5691
4.94	-----	5.86	-----	71 00			
6.60	5.00	6.65	10.00	4 00	Old process linseed oil meal, corn germ meal, hominy feed, meat meal, wheat middlings, wheat bran, dried beet pulp and $\frac{1}{2}$ of 1% salt.	As certified, -----	5227
6.53	7-8.5	7.27	6-8	3 40	Brewers' dried grains, malt sprouts, cottonseed meal, hominy meal.	Brewers' dried grains, malt sprouts, cottonseed meal, cocoanut oil meal and hominy meal.	4823
4.94	3.50	7.98	9.00	4 00	Corn feed meal, molasses, alfalfa meal, wheat bran, digester tankage, cocoanut oil meal, ground charcoal, salt.	As certified, -----	5138
7.45	4.00	9.67	13.00	3 50	Cocoanut oil meal, velvet bean meal, peanut oil feed, rice bran, old process linseed oil meal, alfalfa meal, hominy meal, oat hulls, oat middlings, oat shorts, fish, meat, bone, corn meal, corn germ meal, wheat middlings, salt, calcium hydroxide, calcium carbonate.	Cocoanut oil meal, rice bran, velvet bean meal, peanut oil feed, old process linseed oil meal, alfalfa meal, hominy meal, oat hulls, oat middlings, oat shorts, fish, meat, bone, corn meal, corn germ meal, wheat middlings, rice hulls, calcium hydroxide, calcium carbonate and salt.	5077

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5389	Go-Tu-It Hog Ration, -----	Oil City Milling Co., Oil City.	Per ct. 10.05	Per ct. 20.63	Per ct. 15.00
4835	Average, -----		9.52	20.41	-----
	J. E. PRITTS, SCOTTDALE, PA. *Pritt's Pig Feed, -----	J. E. Pritts, Scottdale, --	12.62	19.94	16-18
5165	RALSTON PURINA CO., ST. LOUIS, MO. Purina Pig Chow, with Charcoal not over 3%.	Danville Milling Company, Danville.	12.80	12.73	14.00
	Purina Pig Chow, with Charcoal not over 3%.	DuBois Milling Co., Du-Bois.	14.40	15.61	14.00
5187	Purina Pig Chow, with Charcoal not over 3%.	O. S. Ebersole, Penbrook,	14.30	13.14	14.00
4900	Purina Pig Chow, with Charcoal not over 3%.	Huntingdon Milling Co., Huntingdon.	14.16	12.20	14.00
4974	Purina Pig Chow, with Charcoal not over 3%.	J. T. Murphy, Clearfield,	15.27	15.14	14.00
5114	Purina Pig Chow, with Charcoal not over 3%.	L. A. Shaffer, Big Run, --	14.94	17.71	14.00
5507	Average, -----		14.31	14.42	-----
	ROSENBAUM BROTHERS, CHICAGO, ILL. Will-Pay Hog Feed with Milk Albumen and Pure Blood Meal.	L. Todd Owens, Apollo, --	10.68	16.25	14.00
5659	Will-Pay Hog Feed with Milk Albumen and Pure Blood Meal.	Washington Grain & Feed Co., Washington,	9.95	16.50	14.00
	Average, -----		10.31	16.38	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.98	Per ct. 6.00	Per ct. 11.65	Per ct. 13.00	\$3 60	Cocoanut oil meal, velvet bean meal, peanut oil feed, rice bran, old process linseed oil meal, alfalfa meal, hominy meal, oat hulls, oat middlings, oat shorts, fish, meat, bone, corn meal, corn germ meal, wheat middlings, salt, calcium hydroxide, calcium carbonate.	Cocoanut oil meal, peanut oil meal, rice bran, rice hulls, buckwheat middlings, old process linseed oil meal, alfalfa meal, hominy meal, oat hulls, oat middlings, oat shorts, fish, meat, bone, corn meal, corn germ meal, wheat middlings, calcium hydroxide, calcium carbonate and salt.	5389
7.22	-----	10.66	-----	3 55			
4.38	3-4	3.72	4.50 to 6.50	3.25	Corn chop, wheat middlings, charcoal, alfalfa meal, barley flour and digester tankage and oil meal.	As certified, -----	4853
2.29	3.20	11.33	9.00	3 60	Hominy feed, corn feed meal, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	5165
3.23	3.50	9.53	9.00	3 65	Hominy feed, cane molasses, gluten feed from corn, digester tankage, alfalfa, charcoal and 1% salt.	As certified, -----	5215
3.87	3.50	11.17	9.00	3 70	Hominy feed, cane molasses, gluten feed from corn, digester tankage, alfalfa, charcoal and 1% salt.	As certified, -----	5187
3.59	3.20	12.99	9.00	3 75	Hominy feed, corn feed meal, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	4900
3.48	3.20	10.49	9.00	3 50	Hominy feed, corn feed meal, molasses, alfalfa, digester tankage, charcoal and 1% salt.	Hominy feed, corn feed meal, corn gluten feed, alfalfa meal, digester tankage, charcoal and salt.	4974
3.23	3.50	8.68	9.00	3 70	Hominy feed, cane molasses, gluten feed from corn, digester tankage, alfalfa, charcoal and 1% salt.	As certified, -----	5114
3.28	-----	10.70	-----	3 65			
3.43	3.50	6.87	9.50	3 90	Blood meal, milk albumen, corn feed meal, wheat middlings, old process linseed oil meal, ground barley, ground oats, bone meal, ground and bolted wheat, barley and Kaffir screenings and $\frac{1}{2}$ of 1% salt.	As certified, -----	5567
3.83	3.50	7.12	9.50	3 90	Blood meal, milk albumen, corn feed meal, wheat middlings, old process linseed oil meal, ground barley, ground oats, bone meal, ground and bolted wheat, barley and Kaffir screenings and $\frac{1}{2}$ of 1% salt.	As certified, -----	5659
3.64	-----	7.00	-----	3 90			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5663	Vitality Hog Feed with Pure Blood Meal.	Washington Grain & Feed Co., Washington.	Per ct. 9.86	Per ct. 21.19	Per ct. 20.00
5030	RYDE & CO., CHICAGO, ILL. Ryde's Pig Meal, -----	Lewistown Ice & Storage Co., Lewistown.	10.83	21.56	21.00
5391	Ryde's Pig Meal, -----	Oil City Milling Co., Oil City.	10.79	22.63	21.00
5583	Ryde's Pig Meal, -----	Swanson Grocery Co., Kane.	11.34	20.81	21.00
		Average, -----	10.98	21.67	-----
5034	SPANOGLE-YEAGER MILLING CO., LEWISTOWN, PA. Mt. Rock Hog Feed, -----	Spanogle-Yeager Milling Co., Lewistown.	10.81	16.25	-----
4747	GEO. WALTER & SON, BUTLER, PA. *Walter's Byrite Pig Meal, -----	Geo. Walter & Son, Butler.	9.75	19.69	18.00
5099	PROPRIETARY CHOP FEEDS. GLOBE ELEVATOR CO., BUF- FALO, N. Y. C. O. & B. Chop, -----	Jefferson Flour & Feed Co., Punxsutawney.	12.41	10.56	8.00
5107	No. 1 Chop Feed, -----	Fales Grocery Co., Reynolds- ville.	11.10	10.69	9.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.28	4.00	5.67	9.00	\$4 30	Pure blood meal, corn feed meal, wheat middlings, ground barley, ground oats, old process linseed oil meal, digester tankage, bone meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5660
4.90	6.00	5.70	6.00	5 20	Corn meal, oat meal, meat scraps, wheat middlings, cocoanut meal, locust bean meal, ground flaxseed, re-cleaned cottonseed meal, blood flour, ground beans, cocoa shell meal, hominy feed, foenugreek, anise and salt.	Corn meal, oat meal, meat scrap, wheat middlings, ground flaxseed, re-cleaned cottonseed meal, blood flour, ground beans, hominy feed, foenugreek, anise and salt.	5030
5.15	6.00	7.52	6.00	5 40	Corn meal, oat meal, meat scraps, wheat middlings, cocoanut meal, locust bean meal, ground flaxseed, re-cleaned cottonseed meal, blood flour, ground beans, cocoa shell meal, hominy feed, foenugreek, anise and salt.	Corn meal, oat meal, meat scrap, wheat middlings, ground flaxseed, rye middlings, re-cleaned cottonseed meal, blood flour, ground beans, cocoa shell meal, hominy feed, foenugreek, anise and salt.	5391
5.50	6.00	7.12	6.00	4.80	Corn meal, oat meal, meat scraps, wheat middlings, cocoanut meal, locust bean meal, ground flaxseed, re-cleaned cottonseed meal, blood flour, ground beans, cocoa shell meal, hominy feed, foenugreek, anise and salt.	Corn meal, oat meal, meat scrap, wheat middlings, ground flaxseed, re-cleaned cottonseed meal, blood flour, ground beans, cocoa shell meal, hominy feed, foenugreek, anise and salt.	5583
5.18	-----	6.78	-----	5 13			
3.95	-----	5.07	-----	3 25	Corn, corn feed meal, oats, oil meal, cottonseed meal, corn gluten and alfalfa meal.	As certified, -----	5034
7.03	5.50	8.62	10.00	3 25	Cocoanut meal, wheat shorts, ground and bolted screenings from wheat, old process linseed oil meal, velvet bean meal, salt.	As certified, -----	4747
2.53	3.00	6.50	9.00	3 25	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed, salt $\frac{3}{4}$ of 1%.	As certified, -----	5099
3.20	3.00	9.42	9.00	3 40	Ground corn, oats and barley, barley shorts and hulls, oat shorts and hulls, corn hominy feed, salt $\frac{3}{4}$ of 1%.	As certified, -----	5107

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4969	No. 1 Chop Feed, -----	Morrisdale Feed & Grain Co., Morrisdale.	Per ct. 10.25	Per ct. 10.38	Per ct. 8-10
5317	No. 1 Chop Feed, -----	Standard Feed Co., Wilkes-Barre.	11.72	9.56	9-12
5690	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Monopoly Feed, -----	Average, ----- Erie Milling & Supply Co., Erie.	11.37 10.28	10.30 12.19	----- 10.00
5725	Badger Monopoly Feed, -----	J. H. Rodkey, Franks-town. Average, -----	10.15 10.21	13.31 12.75	10.00 -----
4920	THE LAKE ERIE MILLING CO., TOLEDO, OHIO. Mollett's Yellow C. O. & B. Chop, --	Centre Milling Co., Philipsburg.	11.47	9.56	8-9
5209	Mollett's Yellow C. O. & B. Chop, --	Ridgway Grist Mill, Ridgway.	10.00	16.81	8-9
5297	THE MANDEVILLE CO., WILKES-BARRE, PA. B. Chop, -----	Average, ----- The Mandeville Co., Wilkes-Barre.	10.73 9.30	10.19 14.56	----- 9-10
5008	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's C. O. & B. Chop Feed, -----	J. E. Orisman, South Fork.	9.92	10.25	9.00
5127	Camp's Little Wonder Chop Feed, ---	F. H. Dyer, Lock Haven,	9.68	10.00	8.00
4916	Camp's Little Wonder Chop Feed, ---	H. H. Lysinger & Son, Bedford.	8.71	10.94	8.00
4975	Camp's Little Wonder Chop Feed, --	J. T. Murphy, Clearfield,	9.72	12.56	8.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.58	Per ct. 3-5	Per ct. 8.97	Per ct. 15.00	\$3 25	Ground oats and oat hulls, ground corn, barley middlings, barley hulls, corn hominy feed, salt $\frac{3}{4}$ of 1%.	As certified, -----	4969
3.25	3-5	8.75	11-13	4 05	Ground corn, oats and barley, barley shorts and hulls, oat shorts and hulls, corn hominy feed, salt $\frac{3}{4}$ of 1%.	As certified, -----	5317
3.14	-----	8.41	-----	3 49			
5.00	3.50	7.80	10.00	3 50	Ground whole corn, oats and barley.	As certified, -----	5690
4.28	3.25	9.50	10.00	4 00	Ground whole corn, oats and barley.	Ground corn and oats, -----	5725
4.64	-----	8.65	-----	3 75			
2.75	3-4	9.45	6-9	3 25	Corn, oats, oat hulls, oat groats, oat middlings, corn meal of-fal, barley and $\frac{1}{2}$ to 1% salt.	As certified, -----	4920
3.30	8-4	8.92	9-11	3 50	Corn, oats, oat hulls, oat groats, oat middlings, corn meal of-fal, cottonseed meal, barley and $\frac{1}{2}$ of 1% salt.	Corn, oats, oat hulls, oat groats, oat middlings, corn meal, cottonseed meal and salt.	5209
3.03	-----	9.18	-----	3 38			
5.25	4-6	6.37	5-6	3 75	Corn, hominy, oat hulls,	As certified, -----	5297
4.48	3.50	8.27	9.00	2 90	White or yellow corn, oats, barley, corn meal mill by-product (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, corn meal mill by-product (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	5008
3.55	4.00	10.97	8.00	3 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal mill by-products (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	5127
3.80	4.00	8.43	8.00	2 90	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal mill by-products (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4916
3 20	4.00	9.60	8.00	3 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal mill by-products (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4975

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5202	Camp's Little Wonder Chop Feed, --	Smith Brothers Co., Ridgeway.	Per ct. 9.92	Per ct. 13.44	Per ct. 8.00
		Average, -----	9.50	11.74	-----
5144	Camp's Surprise Chop Feed, -----	N. J. Hockman, Bellefonte.	9.70	11.56	9.00
4877	Camp's Surprise Chop Feed, -----	Johnston & Smith, Wilkinsburg.	9.79	11.88	9.00
5631	Camp's Surprise Chop Feed, -----	Keystone Commercial Co., McKeesport.	8.66	11.63	9.0
4917	Camp's Surprise Chop Feed, -----	H. H. Lysinger & Son, Bedford.	9.22	16.19	9.00
4976	Camp's Surprise Chop Feed, -----	J. T. Murphy, Clearfield.	9.22	11.13	9.00
4884	Camp's Surprise Chop Feed, -----	Richey & McFarland, Carnegie.	10.24	11.75	9.00
4976	Camp's Surprise Chop Feed, -----	Jacob Smutzinger, Munson.	9.12	11.19	9.00
		Average, -----	9.42	12.18	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.35	Per ct. 4.00	Per ct. 10.35	Per ct. 8.60	\$3 40	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal mill by-products (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	5202
3.48	-----	9.83	-----	3 14			
2.98	4.00	12.86	9.00	3 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, corn meal mill by-product (fine meal and siftings), oat groats, oat middlings, oat hulls, wheat middlings and salt.	5144
3.55	4.00	8.37	9.00	3 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4877
3.35	4.00	13.29	9.00	64 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, corn meal mill by-product (fine meal and siftings), oat groats, oat middlings, oat hulls, wheat middlings, corn glumes and salt.	5631
3.80	4.00	8.40	9.00	2 80	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, corn meal mill by-product (fine meal and siftings), oat groats, oat middlings, oat hulls, wheat middlings, corn gluten feed and salt.	4917
3.08	4.00	10.67	9.00	3 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4975
3.65	4.00	9.05	9.00	53 50	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4884
3 84	4.00	11.83	9.00	3 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat groats, oat middlings and oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4970
3.46	-----	10.63	-----	60 50			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
MISCELLANEOUS CHOP FEEDS.					
CORN CHOPS.					
5275	MONARCH MILLING CO., LEBANON, PA. *Corn Chop, -----	Monarch Milling Co., Lebanon.	Per ct. 11.44	Per ct. 11.25	Per ct. -----
4984	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. *Camp's Yellow Corn Meal, -----	J. C. Reed, Philipsburg, --- Average, -----	10.91 11.17	10.81 11.03	----- -----
OAT CHOPS.					
5110	DUBOIS MILLING COMPANY, DUBOIS, PA. *Ground Oats, -----	Fales Grocery Co., Reynolds-ville.	11.00	13.38	-----
5668	E. K. LEMONT & SON, PHILADELPHIA, PA. *Michigan Oats, -----	R. W. Wertz, Wernersville.	8.77	11.50	-----
5173	MAUSDALE ROLLER MILLS, MAUSDALE, PA. *Oats Chop, -----	Mausdale Roller Mills, Mausdale.	11.20	11.81	-----
5270	MONARCH MILLING CO., LEBANON, PA. *Oat Chops, -----	Monarch Milling Co., Lebanon.	10.61	12.69	-----
5419	W. S. WOODWARD & CO., PHILADELPHIA, PA. *Crushed Oats, -----	W. S. Woodward & Co., Philadelphia. Average, -----	9.85 10.28	12.94 12.46	----- -----
BARLEY CHOPS.					
5108	GLOBE ELEVATOR COMPANY, BUFFALO, N. Y. *Ground Barley, -----	Fales Grocery Co., Reynolds-ville.	12.21	12.94	-----
4880	HALES & EDWARDS CO., CHICAGO, ILL. *Ground Feed Barley, -----	J. A. Siorski, Oakdale, -- Average, -----	12.70 12.45	13.13 13.64	----- -----
RYE CHOPS.					
5531	NORTHERN ILLINOIS CEREAL CO., LOCKPORT, ILL. Gold Medal Brand Rye Flakes, -----	James B. Hayward & Son, Monongahela City.	12.05	13.13	-----
4903	Gold Medal Brand Rye Flakes, -----	Huntingdon Milling Co., Huntingdon. Average, -----	11.39 11.72	14.75 13.94	----- -----
CORN & OAT CHOPS.					
5157	GLOBE ELEVATOR CO., BUFFALO, N. Y. *Fine Ground Corn and Oats, Half & Half.	Haney-Frazier Milling & Elevator Co., Riverside.	11.57	11.94	8-10

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.30	-----	Per ct. 1.95	-----	\$3 80	Shelled corn, -----	Corn chop, damaged, infected with meal worms.	5275
4.00	-----	2.20	-----	4 50	Pure and unadulterated,	As certified, -----	4984
4.15	-----	2.07	-----	4 15			
5.35	-----	3.95	-----	3 50	-----	Oat chop, -----	5110
5.40	-----	9.57	-----	2 81	-----	Whole oats, -----	5668
4.53	-----	11.37	-----	2 75	Oats, -----	As certified, -----	5173
5.25	-----	9.77	-----	2 90	Pure oats, -----	As certified, -----	5276
4.23	-----	13.02	-----	3 10	-----	Oat chop. Trace of whole weed seeds.	5419
4.95	-----	9.53	-----	3 01			
2.28	-----	5.15	-----	3 45	-----	Barley chop, -----	5108
2.23	-----	5.17	-----	57 00	-----	Barley chop, -----	4886
2.26	-----	5.16	-----	63 00			
1.45	-----	2.10	-----	3 40	-----	Rye chop, -----	5531
1.70	-----	1.67	-----	60 00	-----	Rye chop, -----	4903
1.58	-----	1.88	-----	64 00			
4.23	4-5	5.12	4-6	3 50	-----	Corn and oats, -----	5157

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
5477	THE HEX MILLING CO., SHAMOKIN, PA. *Corn and Oats Chop, -----	The Hex Milling Co., Shamokin.	Per ct. 11.37	Per ct. 10.31	-----
5270	LEBANON MILLING CO., LEBANON, PA. *Corn and Oats Chop, -----	Lebanon Milling Co., Lebanon.	11.82	11.25	-----
5494	MYSTIC MILLING & FEED CO., ROCHESTER, N. Y. $\frac{1}{2}$ and $\frac{1}{2}$ Crushed Oats & Cracked Corn.	Canton Mercantile Co., Inc., Canton.	11.44	11.19	-----
5495	$\frac{1}{2}$ and $\frac{1}{2}$ Crushed Oats & Cracked Corn.	Canton Mercantile Co., Inc., Canton.	11.89	12.97	-----
		Average, -----	11.66	12.08	-----
5079	THE PARK & POLLARD CO. OF ILLINOIS, CHICAGO, ILL. Park & Pollard Corn & Oat Chop, --	J. A. Hawk, New Kensington.	12.17	11.06	9.00
5455	C. W. STEESE, LEWISBURG, PA. *Chop, -----	Mifflinburg Supply Co., Mifflinburg.	11.36	13.44	-----
		Total average, -----	11.66	11.74	-----
CHOP FEEDS.					
5352	THE AKRON FEED & MILLING COMPANY, AKRON, OHIO. *Barley Feed, -----	John S. Brown's Son, New Castle.	11.16	14.88	-----
5451	BRADFORD & SON, CENTRE HALL, PA. Fresh Ground Chop, -----	Bradford & Son, Centre Hall.	11.69	13.75	-----
5221	CHESBRO BROTHERS, ATTICA, N. Y. Corn, Oats and Barley Feed, -----	A. T. Sprankle, DuBois, --	8.94	12.56	8-19
5670	C. S. COLEMAN & CO., PHILADELPHIA, PA. *Ground Barley, -----	Newgard & Tice, Annville,	10.37	13.13	-----
5216	DUBOIS MILLING CO., DUBOIS, PA. Mixed Chop, -----	DuBois Milling Co., DuBois.	11.40	9.25	-----
5698	FRANKLIN MILLING CO., SWINEFORD, PA. *Chop Feed, -----	Franklin Milling Co., Swineford.	11.57	12.38	12.25
5172	MAUSDALE ROLLER MILLS, MAUSDALE, PA. *Mixed Chop, -----	Mausdale Roller Mills, Mausdale.	11.42	10.31	-----
5307	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mixed Chop, -----	Miner-Hillard Milling Co., Plymouth.	10.71	12.06	7.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.98		3.52		\$4 00	Corn and oats, -----	As certified, -----	5477
4.68		5.02		3 85	Ground corn and oats, --	As certified, -----	5270
4.23		5.58		3 60	-----	Corn and oats, -----	5494
4.15		6.47		3 60	-----	Corn and oats, -----	5495
4.20		6.02		3 60			
4.55	3.00	5.30	9.00	3 00	Corn and oats, -----	As certified, -----	5079
3.85		4.47		3 50	-----	Corn and oats, -----	5455
4.38		5.03		3 58			
3.53		8.07		3 10	Ground from whole barley.	Ground barley, oat middlings and oat hulls.	5352
3.08		5.00		3 50	Corn, oats, barley, rye and wheat screenings.	As certified, -----	5451
5.48	4-6	9.50	7-9	3 25	Corn, hominy, barley, oat shorts, oat hulls, oat middlings, oil meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5221
3.23		8.47		3 40	-----	Ground barley, ground oats and ground grain screenings.	5670
3.19		12.18		3 10	Barley feed, oat feed, corn.	Corn, barley middlings, barley hulls, oat middlings and oat hulls.	5216
4.60	2.81	5.55	3.11	3 40	Corn, oats and wheat screenings.	As certified, -----	5698
3.85		7.72		2 75	Cob corn and oats, ----	As certified, -----	5172
4.20	2.00	5.87	7.00	4 00	Corn, wheat middlings and oats.	As certified, -----	5307

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
MISCELLANEOUS FEEDS.					
4988	AMERICAN SHEET & TIN PLATE CO., PITTSBURGH, PA. *Branner Refuse, -----	H. L. Mollenauer, Eighty Four.	Per ct. 4.66	Per ct. 14.90	Per ct. -----
5065	*Branner Refuse, -----	H. L. Mollenauer, Eighty Four.	6.15	15.07	-----
		Average, -----	5.40	14.99	-----
4868	WM. J. BRANT, PITTSBURGH, PA. *Wheat Graham Flour, -----	The Irwin Muir Co., Brad-dock.	12.40	14.56	-----
5757	CONSOLIDATED PRODUCTS CO., LINCOLN, NEB. *Semi-Solid Buttermilk, -----	Diehl, Omwake & Diehl, Chambersburg.	41.66	24.86	-----
5464	HEN-E-TA BONE CO., NEWARK, N. J. *Hog Bon, -----	E. C. Noll, Lewisburg, ---	1.58	-----	-----
5552	KASCO MILLS, WAVERLY, N. Y. *Kafir Corn, -----	Dayton Milling Co., To-wanda.	11.62	11.25	-----
4956	LANIER BROTHERS, NASHVILLE, TENN. *Cotton Seed Hulls, -----	Lehman & Wolgemuth, Elizabethtown.	9.27	6.00	-----
5714	I. H. NESTER, PHILADELPHIA, PA. Extra Heavy Syrup or McCann's Black Strap.	Joseph M. Weaver, East Earl.	25.18	4.93	3.16
5713	PURE CANE MOLASSES CORPORA-TION, PHILADELPHIA, PA. *Cane Mola, -----	Joseph M. Weaver, East Earl. Average, -----	27.91 26.54	4.86 4.90	4.00 -----
PROPRIETARY POULTRY FEEDS.					
SCRATCH FEEDS.					
5057	ACME-EVANS CO., INDIANAPOLIS, IND. Acme Scratch without Grit, -----	H. W. Walker Co., Som-erset.	12.95	11.50	10.00
4728	THE AKRON FEED & MILLING CO., AKRON, OHIO. Portage Scratch Feed, -----	P. J. Oesterling & Son, Butler.	12.08	11.44	10.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
6.53		20.62		\$37 50		Rye middlings, ground peanut hulls, cottonseed hulls and palm oil.	4988
6.35		22.97		37 50		Rye middlings, ground peanut hulls, cottonseed hulls and palm oil.	5065
6.44		21.79		37 50			
6.42		2.40		3 20		Whole wheat flour, -----	4868
5.78				5 25		Semi-Solid buttermilk, ---	5757
				3 00		Calcium phosphate, potassium and calcium carbonates and charcoal.	5464
2.95		1.65		4 80		Kaffir corn, -----	5552
1.08		38.62		18 00		Cottonseed hulls, -----	4956
				13c gal.		Black strap molasses, ---	5714
				15c gal.		Molasses, -----	5713
				14c gal.			
2.98	2.50	2.87	5.00	4 50	Wheat, cracked corn, buckwheat, barley, sunflower seed, Kaffir corn.	Wheat, cracked corn, buckwheat, barley, sunflower seed, Kaffir corn and small amount whole weed seeds.	5057
2.38	2.50	2.22	5.00	4 10	Cracked Indian corn, whole wheat, whole barley, whole Kaffir and milo $\frac{1}{2}$ of 1%, sunflower seeds, whole buckwheat, whole oats.	Cracked Indian corn, whole wheat, whole barley, whole Kaffir corn; milo maize, sunflower seed, whole buckwheat, whole oats and small amount whole weed seeds.	4728

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4982	Portage Scratch Feed, -----	J. O. Reed, Philipsburg,	Per ct. 11.31	Per ct. 11.56	Per ct. 10.00
		Average, -----	11.69	11.50	-----
5467	AMERICAN MILLING CO., PEO- RIA, ILL. Cluck Cluck Scratch Feed, -----	E. C. Noll, Lewisburg, ---	10.72	11.81	10.00
4963	ARCADY FARMS MILLING CO., CO., RONDOUT, ILL. Arcady Poultry Feed, -----	Chas. H. Longcope, Phila- delphia.	11.34	11.19	9.00
4951	J. J. BADENOCH CO., CHICAGO, ILL. Daily Egg Poultry Feed—No Grit, ---	Washington Coates, Est., Philadelphia.	11.49	11.44	9.50
4928	Daily Egg Poulthy Feed—No Grit, ---	Stager Co., New Brighton,	12.97	11.85	9.50
		Average, -----	12.23	11.66	-----
5491	Daily Egg Poultry Feed with Grit, ---	Hockey & McCurdy, Scott- dale.	10.97	12.00	9.50
5625	BLACK ROCK MILLING CORPORA- TION, BLACK ROCK, N. Y. *Pontiac Scratch Feed, -----	Ezl. Dunwoody Co., Phila- delphia.	11.87	12.38	10.00
4825	BLANK & GOTTSBALL, SUN- BURY, PA. B. & G. Blended Hen Food, -----	Blank & Gottshall, Sun- bury.	13.31	11.25	10.00
4826	B. & G. Pigeon Food, -----	Blank & Gottshall. Sun- bury.	12.40	13.94	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.40	Per ct. 2.50	Per ct. 2.82	Per ct. 5.00	\$4 00	Cracked Indian corn, whole wheat, whole barley, whole Kafir and milo, $\frac{1}{2}$ of 1% sunflower seeds, whole buckwheat, whole oats.	As certified, -----	4982
2.39	-----	2.52	-----	4 05			
3.45	2.50	3.70	5.00	4 40	Corn, wheat, Kafir, barley, sunflower seed, buckwheat and oats.	Corn, wheat, Kafir corn, barley, sunflower seed, buckwheat, oats and small amount whole weed seeds.	5467
3.20	2.00	2.90	5.00	4 50	Wheat, cracked corn, Kafir corn, barley, oats, buckwheat, sunflower seed.	As certified, -----	4963
3.00	2.50	2.92	5.00	3 75	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed and milo maize.	Wheat, cracked corn, Kafir corn, barley, oats, milo maize and small amount small whole weed seeds.	4951
3.00	2.50	2.67	5.00	3 55	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed and milo maize.	As certified, -----	4928
3.00	-----	2.79	-----	3 65			
2.60	2.50	3.27	5.00	5 25	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed, milo maize, grit and shells.	Wheat, cracked corn, Kafir corn, oats, barley, oats, milo maize, grit, shells and small amount whole weed seeds.	5491
3.08	1.50	-2.75	5.00	77 00	Cracked corn, wheat, barley, buckwheat, oats, Kafir corn and milo.	As certified, -----	5625
3.13	2.25	2.95	3.50	72 00	Cracked corn, wheat, Kafir corn, buckwheat, barley, charcoal, sunflower seed, oats, Hen-E-Ta bone.	Cracked corn, wheat, Kafir corn, buckwheat, barley, sunflower seed, oats, charcoal, Hen-E-Ta bone and small amount whole weed seeds.	4825
4.30	3.00	4.02	5.25	90 00	Cracked corn, wheat, buckwheat, Kafir corn, peas, hemp, millet.	Cracked corn, wheat, buckwheat, Kafir corn, peas, hemp seed, millet seed, vetch seed and small amount whole weed seeds.	4826

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4973	THE BUCKEYE CEREAL CO., MASSILON, OHIO. Buckeye Scratch Feed, -----	J. T. Murphy, Clearfield,	Per ct. 11.52	Per ct. 10.81	Per ct. 10.00
5378	BUFFALO CEREAL CO., BUF- FALO, N. Y. Bufaceco Scratching Grains, -----	Smith Brothers, Bradford,	12.03	11.44	10-12
5493	Iroquois Scratching Grains, -----	Canton Mercantile Co., Inc., Canton.	11.76	10.81	10-12
4815	BUFFALO FLOUR MILLS, MIL- TON, PA. Hen Food, -----	Buffalo Flour Mills, Mil- ton.	12.23	16.94	10.44
5174	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Scratch Feed, -----	Mausdale Roller Mills, Mausdale.	12.53	11.25	9.00
4819	W. E. CUSTER, MILTON, PA. *Custer's Scratch Feed, -----	W. E. Custer, Milton, ---	11.52	12.13	-----
5246	DANNALS MILLING CO., AL- TOONA, PA. Hen Food, -----	Dannals Milling Co., Al- toona.	12.68	10.56	8.00
5247	Superior Chick Food, -----	Dannals Milling Co., Al- toona.	13.89	10.63	8.00
5162	DANVILLE MILLING CO., DAN- VILLE, PA. *Golden Egg Hen Food, -----	Danville Milling Co., Dan- ville.	12.25	11.56	7-9.5
5392	THE DAYTON GRAIN & HAY CO., DAYTON, OHIO. Make-Em-Lay Scratch Feed—No Grit,	Oil City Milling Co., Oil City.	12.42	11.44	10.00
5542	DAYTON MILLING CO., TO- WANDA, PA. Dalton's Ideal Scratch Grains, -----	Dayton Milling Co., To- wanda.	10.94	11.88	8-12
5525	THE ALBERT DIKINSON CO., CHICAGO, ILL. Colonial Scratch Feed—No Grit, -----	Western Flour Co., Char- leroi.	12.01	10.94	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.88	Per ct. 3.60	Per ct. 2.12	Per ct. 4.00	\$4 00	Cracked corn, buckwheat, barley, wheat, oats, wheat screenings.	Cracked corn, buckwheat, barley, wheat, oats, wheat screenings and small amount whole weed seeds.	4873
2.30	3-4	2.80	5.00	4 40	Corn, oats, barley, buckwheat, Kaffir corn, peas, sunflower seed and wheat.	As certified, -----	5378
2.65	3-4	3.30	5.00	4 20	Corn, oats, barley, Kaffir corn, buckwheat, sunflower seed.	As certified, -----	5493
2.63	3.10	3.00	2.84	4 25	Cracked corn, No. 3 wheat screenings, oats, buckwheat, sunflower seed, barley screenings, Kaffir corn, oyster shells, barley.	Cracked corn, wheat screenings, oats, buckwheat, barley, barley screenings, Kaffir corn, oyster shells and large amount of whole weed seeds.	4815
3.93	2.00	3.80	5.00	3 50	Wheat, cracked corn, Kaffir corn, oats, barley, buckwheat and sunflower seed.	As certified, -----	5174
3.70	-----	2.95	-----	4 00	Wheat, buckwheat, cracked corn, oats and sunflower seed.	Wheat, buckwheat, cracked corn, oats, sunflower seed, rye and large amount whole weed seeds.	4819
2.95	2.00	4.07	5.00	4 00	Cracked corn, Kaffir corn, buckwheat, barley, oats, wheat, sunflower seed, grit and oyster shell.	Cracked corn, Kaffir corn, buckwheat, barley, oats, wheat, grit and oyster shells.	5246
2.53	2.00	1.67	15.00	4 25	Cracked corn, cracked Kaffir corn, cracked wheat, millet.	As certified, -----	5247
3.53	2.00 to 2.75	2.80	2.00 to 2.75	4 00	Cracked corn, wheat, oats, Kaffir corn, sunflower seed, charcoal, buckwheat and Hen-E-Ta.	As certified, -----	5162
2.48	2.50	3.20	5.00	4.50	Wheat, corn, oats, barley, buckwheat and sunflower seeds.	Wheat, corn, oats, barley, buckwheat, rye, Kaffir corn and sunflower seed.	5392
3.48	3-6	2.47	3-5	4 70	-----	Cracked corn, wheat, oats, Kaffir corn and small amount whole weed seeds.	5542
3 03	2.50	3.46	5.00	85 00	Corn, wheat, buckwheat, sunflower, barley, oats, Kaffir corn.	As certified, -----	5525

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5573	Dickinson's Globe Scratch Feed—No Grit.	J. A. Gault Co., Kittanning.	Per ct. 12.00	Per ct. 11.25	Per ct. 10.00
5088	Dickinson's Globe Scratch Feed—No Grit.	Paxton Flour & Feed Co., Harrisburg.	12.14	12.13	10.00
		Average, -----	12.67	11.69	-----
5089	Pine Tree Scratch Feed—No Grit, ----	Paxton Flour & Feed Co., Harrisburg.	12.61	12.06	10.00
4859	Rival Scratch Feed—No Grit, -----	City Feed Store, Scottsdale.	10.75	12.13	9.50
5527	Rival Scratch Feed—No Grit, -----	Western Flour Co., Charleroi.	10.77	10.50	9.50
		Average, -----	10.76	11.32	-----
5027	White Cross Scratch Feed—No Grit,--	Johnstown Milling Co., Johnstown.	12.87	12.38	10.00
5532	White Cross Scratch Feed—With Grit,	James B. Hayward & Son, Monogahela City.	11.51	11.19	10.00
5090	White Cross Scratch Feed—With Grit,	Paxton Flour & Feed Co., Harrisburg.	12.16	11.44	10.00
		Average, -----	11.83	11.32	-----
5253	EMPORIUM MILLING CO., EMPORIUM, PA. Scratch Feed, -----	Emporium Milling Co., Emporium.	13.36	11.56	-----
5092	JOHN W. ESHELMAN, LANCASTER, PA. Scratch Feed—No Grit, -----	Paxton Flour & Feed Co., Harrisburg.	12.90	11.56	10.00
5254	Scratch Feed—No Grit, -----	Rice & Jones, Lebanon, ---	12.50	11.00	10.00
		Average, -----	12.70	11.28	-----
5091	Scratch Feed—5% Grit, -----	Paxton Flour & Feed Co., Harrisburg.	12.38	10.94	10.00
5300	GLOBE ELEVATOR CO., BUFFALO, N. Y. Blue Ribbon Little Chick Food, -----	The Mandeville Co., Wilkes-Barre.	12.82	13.81	12-14

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.80	Per ct. 2.50	Per ct. 3.10	Per ct. 5.00	\$4 55	Corn, wheat, Kaffir corn, buckwheat, sunflower, barley, oats, linseed oil cake.	As certified, -----	5573
3.23	2.50	3.82	5.00	4 30	Corn, wheat, Kaffir corn, buckwheat, sunflower, barley, oats, linseed oil cake.	Corn, wheat, Kaffir corn, buckwheat, sunflower seed, barley, oats, linseed oil cake and small amount whole weed seeds.	5688
3.02	-----	3.46	-----	4 42			
3.05	2.50	3.12	5.00	-----	Corn, wheat, Kaffir corn, buckwheat, barley, oats.	Corn, wheat, Kaffir corn, barley, oats and small amount whole weed seeds.	5089
3.60	2.50	3.97	5.00	3 75	Corn, wheat, Kaffir corn, barley, oats.	As certified, -----	4859
2.78	2.50	3.77	5.00	82 00	Corn, wheat, Kaffir corn, barley and grit.	Corn, wheat, Kaffir corn, barley, grit and small amount whole weed seeds.	5527
3.19	-----	3.87	-----	78 50			
3.40	2.50	3.05	5.00	3 75	Corn, wheat, buckwheat, sunflower, barley, oats, Kaffir corn.	As certified, -----	5027
2.80	2.50	3.42	5.00	4 40	Corn, wheat, Kaffir corn, buckwheat, barley, oats and grit.	Corn, wheat, Kaffir corn, buckwheat, barley, oats, millet seed, grit and small amount whole weed seeds.	5532
3.05	2.50	3.57	5.00	4 10	Corn, wheat, Kaffir corn, buckwheat, barley, oats and grit.	Corn, wheat, Kaffir corn, buckwheat, barley, oats, grit and small amount whole weed seeds.	5090
2.93	-----	3.49	-----	4 25			
2.00	-----	3.67	-----	4 00	Whole and cracked grains.	Corn, oats, wheat, rye, barley and buckwheat.	5253
3.00	3.00	3.20	4.00	4 25	Cracked corn, recleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, buckwheat, rye and oats.	Cracked corn, recleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, buckwheat, rye, oats and small amount whole weed seeds.	5092
2.85	3.00	2.90	4.00	4 30	Cracked corn, recleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, buckwheat, rye and oats.	Cracked corn, recleaned grain screenings from wheat, wheat, barley, Kaffir corn, buckwheat, rye and oats.	5254
2.93	-----	3.05	-----	4 28			
2.58	3.00	2.47	4.00	4 10	Cracked corn, recleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, buckwheat, rye and oats.	Cracked corn, recleaned grain screenings from wheat, wheat, barley, Kaffir corn, buckwheat, rye, oats and small amount whole weed seeds.	5091
3.00	3-4	1.77	2-3	4 25	Cracked corn, millet, cracked wheat, cracked Kaffir, cracked peas, oat meal.	As certified, -----	5300

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5371	Blue Ribbon Scratch Feed, -----	L. A. Fischer & Co., Bradford.	Per ct. 12.90	Per ct. 11.75	Per ct. 11-12
5316	Blue Ribbon Scratch Feed, -----	Standard Feed Co., Wilkes-Barre.	12.19	12.75	11-12
		Average, -----	12.54	12.25	-----
5096	Star Scratching Grains, -----	Keystone Flour & Feed Co., Punxsutawney.	12.32	12.00	10.00
4968	Star Scratching Grains, -----	Morrisdale Grain & Feed Co., Morrisdale.	12.38	12.13	10.00
		Average, -----	12.35	12.07	-----
4999	GRAIN BELT MILLS CO., SOUTH ST. JOSEPH, MO. Liberty Scratch Feed, -----	F. W. Scott, Hays, -----	13.28	11.81	10.60
4923	HALES & EDWARDS CO., CHICAGO, ILL. Cackle Brand Poultry Feed—No Grit,	Stager Co., New Brighton,	12.27	11.44	9.00
4766	Cackle Brand Poultry Feed—No Grit,	Stemler Brothers, East Mauch Chunk.	12.35	10.63	9.00
		Average, -----	12.31	11.04	-----
5630	Cackle Brand Poultry Feed with Grit and Shell.	C. D. Chamberlain, South Brownsville.	10.85	11.00	9.00
4870	Cackle Brand Poultry Feed with Grit and Shell.	The Irwin Muir Co., Brad-dock.	11.36	11.00	9.00
		Average, -----	11.10	11.00	-----
5654	College Scratch Feed with Grit and Shell.	Russell Brothers, Wash-ington.	10.92	11.19	10.00
4924	Red Comb Coarse Chick—No Grit, --	Stager Co., New Brighton,	14.58	12.19	9.00
5486	Red Comb Coarse Chick—With Grit,	Keystone Supply Co., Jean-nette.	12.05	9.50	9.00
4929	Red Comb Fine Chick—No Grit, -----	Stager Co., New Brighton,	14.07	13.13	9.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
3-03	3-4	3-00	3-4				
3.03	3-4	3.00	3-4	\$4 35	Cracked corn, wheat, barley, Kafir, peas, oats, buckwheat, sunflower seed.	As certified, -----	5371
3.33	3-4	3.62	3-4	4 30	Cracked corn, wheat, barley, Kafir, peas, oats, buckwheat, sunflower seed.	Cracked corn, wheat, barley, Kafir corn, peas, oats, buckwheat, sunflower seed and small amount whole weed seeds.	5316
3.18	-----	3.31	-----	4 33			
3.05	2.00	3.40	6.00	4 00	Cracked corn, Kafir, wheat, barley, oats, buckwheat.	Cracked corn, Kafir corn, wheat, barley, oats, buckwheat and small amount whole weed seeds.	5096
3.35	2.00	3.55	6.00	4 25	Cracked corn, Kafir, wheat, barley, oats, buckwheat.	As certified, -----	4968
3.20	-----	3.47	-----	4 13			
3.20	3.00	2.62	5.00	3 90	Oats, barley, corn, milo, Kafir, sunflower seed.	As certified, -----	4999
2.83	2.00	2.52	7.00	3 90	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed.	As certified, -----	4923
3.10	2.00	2.40	7.00	4 35	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed.	As certified, -----	4766
2.97	-----	2.40	-----	4 13			
3.05	2.00	4.27	7.00	90 00	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed and not over 4% grit, 4% shell.	As certified, -----	5630
3.25	2.00	3.30	7.00	3 75	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed and not over 4% grit, 4% shell.	Wheat, cracked corn, Kafir corn, barley, oats, sunflower seed, grit, shell and small amount whole weed seeds.	4870
3.15	-----	3.78	-----	82 50			
3.35	2.50	4.20	5.00	4 35	Cracked corn, wheat, barley, Kafir corn, oats, buckwheat and not over 5% grit and shell.	As certified, -----	5654
2.88	2.00	1.82	7.00	4 00	Wheat, cracked corn, Kafir corn, millet seed, hulled oats.	Wheat, cracked corn, Kafir corn, millet seed, hulled oats and buckwheat.	4924
2.60	2.00	2.15	7.00	90 00	Wheat, cracked corn, Kafir corn, millet seed, hulled oats and not over 6% grit.	As certified, -----	5486
2.45	2.00	1.47	7.00	4 00	Cracked wheat, cracked corn, cracked Kafir corn, millet seed, steel cut oats.	As certified, -----	4929

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5220	Red Comb Fine Chick—With Grit, ---	Timlin-Kelly & Co., Du-Bois.	Per ct. 12.42	Per ct. 10.88	Per ct. 9.00
4927	Red Comb Poultry—No Grit, -----	Stager Co., New Brighton,	12.13	12.13	9.00
5487	Red Comb Poultry Feed—With Grit and Shell.	Keystone Supply Co., Jeanette.	11.35	10.25	9.00
5161	HANEY-FRAZIER MILLING & ELEVATOR CO., RIVERSIDE, PA. *Hen Food, -----	Haney-Frazier Milling & Elevator Co., Riverside.	11.15	10.00	10.00
5475	THE HEX MILLING CO., SHAMOKIN, PA. Hen Food, -----	The Hex Milling Co., Shamokin.	11.21	11.25	8.00 to 10.50
5385	THE H-O COMPANY, BUFFALO, N. Y. Algrane Scratching Feed, -----	Clyde D. Duffee, Oil City,	11.98	11.56	11.60
5083	HOFFER & GARMAN, HARRISBURG, PA. *Chick Feed, -----	Hoffer & Garman, Harrisburg.	12.63	12.00	11.64
5084	*Scratch Feed, -----	Hoffer & Garman, Harrisburg.	12.95	10.75	9-12
4794	J. F. HOGSETT & SON, UNIONTOWN, PA. Keystone Scratch Feed—No Grit, ----	J. F. Hogsett & Son, Uniontown.	12.12	11.38	10.00
5596	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Jem Scratch Feed, -----	R. T. Jones, North Warren.	12.46	11.19	9.00
5635	KEYSTONE COMMERCIAL CO. McKEESPORT, PA. John Hen Poultry Feed—No Grit, --	Keystone Commercial Co., McKeesport.	11.20	12.00	10.00
4873	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS. *Conservation Chick Feed with Grit, --	Johnston & Smith, Wilkinsburg.	11.44	10.31	9.00
4896	Conservation Scratch Feed—No Grit,	Walton Brothers, Philadelphia.	11.89	11.19	9.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.45	Per ct. 2.00	Per ct. 1.52	Per ct. 7.00	\$4 50	Cracked wheat, cracked corn, cracked Kaffir corn, millet seed, steel cut oats and not over 6% grit.	As certified, -----	5220
3.03	2.00	2.87	7.00	3 50	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seeds.	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed and buckwheat.	4927
2.78	2.00	3.87	7.00	88 00	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed and not over 4% grit and 4% shell.	As certified, -----	5487
2.90	3.00	2.05	5.00	3 75	Corn, wheat, Kaffir corn, buckwheat, screenings, barley, oats, Hen-E-Ta bone, grit.	As certified, -----	5161
3.40	2-3	3.37	2-3	4 10	Wheat, cracked corn, barley, oats, sunflower seeds, buckwheat, Kaffir corn and charcoal.	Wheat, cracked corn, oats, buckwheat, Kaffir corn, oyster shells and small amount whole weed seeds.	5475
2.9%	3.50	3.42	6.00	4 50	Wheat, oats, Kaffir corn, buckwheat, hulled oats, cracked corn, milo maize, barley, sunflower seed.	As certified, -----	5385
3.75	3.58	2.47	3.33	4 00	Cracked corn, Kaffir corn and millet.	Cracked corn, Kaffir corn, millet seed and crushed wheat.	5083
3.18	3-6	2.50 to 3.50	2.75 to 3.50	3 75	Cracked corn, buckwheat, oats, Kaffir corn and sunflower seed.	Cracked corn, buckwheat, oats and Kaffir corn.	5084
3.00	2.59	3.55	5.00	4 00	Corn, wheat, rye, barley, oats, Kaffir corn, sunflower, buckwheat.	Corn, wheat, barley, oats, Kaffir corn, sunflower seed and buckwheat.	4794
3.43	3.00	3.05	6.00	4 10	Cracked corn, wheat, milo maize, Kaffir corn, oats, barley, buckwheat, sunflower seed.	Cracked corn, wheat milo maize, Kaffir corn, oats, barley, and buckwheat.	5596
3.25	2.50	3.07	3.00	87 00	Wheat, cracked corn, buckwheat, barley, Kaffir corn, oats, sunflower seed, charcoal.	Wheat, cracked corn, buckwheat, barley, Kaffir corn, oats, and sunflower seed.	5635
3.25	2.50	2.30	5.00	4 50	Cracked corn, milo or Kaffir corn, millet and grit.	Cracked corn, milo maize, Kaffir corn, millet seed, grit and small amount small whole weed seeds.	4873
2.70	2.50	3.15	5.00	-----	Corn, Kaffir corn or milo maize, barley, oats, buckwheat, sunflower.	As certified, -----	4896

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4783	Consevation Scratch Feed—With Grit.	C. W. Royer & Co., Tamaqua.	Per ct. 10.85	Per ct. 10.69	Per ct. 9.00
5577	Cream City Scratch Feed—No Grit,—	L. Pollock, Kittanning,—	11.93	11.13	10.00
4950	Krause Scratch Feed—No Grit, -----	Washington Coates Est., Philadelphia.	13.04	11.63	9.00
4998	THE LAKE ERIE MILLING CO., TOLEDO, OHIO. Mollett's Scratch Feed, -----	F. W. Scott, Hays,-----	12.01	12.06	10.00
4735	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Special Scratch Food—With Grit, --	Thompson & Glenn, Butler.	11.37	11.13	10.50
5392	THE MANDEVILLE CO., WILKES-BARRE, PA. Mandeville's Egg Producer, -----	The Mandeville Co., Wilkes-Barre.	12.45	12.75	-----
4824	C. H. McMAHAN, MILTON, PA. McMahan's Hen Food, -----	C. H. McMahan, Milton,	12.53	10.38	6-10
5306	MINER-HILLIARD MILLING CO., WILKES-BARRE, PA. Little Chick Feed, -----	Miner-Hillard Milling Co., Plymouth.	11.07	12.81	-----
5304	Mixed Chicken Feed, -----	Miner-Hillard Milling Co., Plymouth.	10.95	11.56	8.00
4763	Mixed Chicken Feed, -----	John G. Seager's Sons, Hazleton.	11.72	11.44	8.00
		Average, -----	11.33	11.50	-----
5303	No. 1 Scratch Feed, -----	Miner-Hillard Milling Co., Plymouth.	12.29	12.19	-----
5506	MYSTIC MILLING & FEED CO., ROCHESTER, N. Y. *Mystic Scratchbing Grains, -----	F. P. Case & Son, Troy,—	12.84	11.13	10-12

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.28	Per ct. 2.50	Per ct. 2.92	Per ct. 5.00	\$4 50	Corn, Kaffir corn or milo maize, barley, oats, buckwheat, sunflower, grit.	As certified, -----	4783
3.18	2.50	3.25	5.00	4 25	Wheat, corn, Kaffir corn or milo maize, barley, oats, buckwheat.	As certified, -----	5577
2.58	2.50	3.05	5.00	3 75	Wheat, corn, Kaffir corn or milo maize, barley, oats, buckwheat, sunflower.	As certified, -----	4950
3.23	4.60	2.92	9.00	3 80	Cracked corn, barley, wheat, oats, Kaffir corn, buckwheat, sunflower seed.	Cracked corn, barley, wheat, oats, Kaffir corn and buckwheat.	4998
3.00	3.40	2.07	2.85	4 25	Cracked corn, wheat, Kaffir corn, buckwheat, sunflower seed and barley, not over 5% grit.	Cracked corn, wheat, Kaffir corn, buckwheat, barley, oats, and grit.	4735
3.60	-----	3.00	-----	3 90	Sunflower seed, milo maize, buckwheat, barley, wheat, Kaffir corn, cracked corn.	Sunflower seed, milo maize, buckwheat, barley, wheat, Kaffir corn, cracked corn, rye and oats.	5302
3.25	3-6	3.65	4-6	4 50	Cracked corn, buckwheat, Kaffir corn, barley, oats, sunflower seed, charcoal and 3% grit.	As certified, -----	4825
3.83	-----	1.80	-----	4 50	-----	Cracked corn, wheat Kaffir corn, cracked peas and millet seed.	5306
3.23	2.00	3.30	4.00	4 60	Coarse hominy, Kaffir corn, buckwheat grain, wheat, cracked corn, grit, cracked peas, sunflower seeds, barley, milo maize.	As certified, -----	5304
3.40	2.00	2.80	4.00	375	Coarse hominy, Kaffir corn, buckwheat grain, wheat, cracked corn, grit, crushed peas, sunflower seeds, barley.	Coarse hominy, cracked corn, buckwheat, Kaffir corn, crushed peas, sunflower seed, barley, grit and small amount whole weed seeds.	4763
3.32	-----	3.05	-----	3 88	-----	-----	-----
3.95	-----	4.27	-----	4.20	-----	Corn, wheat, oats, barley, buckwheat, Kaffir corn, sunflower seed, cracked peas and small amount small whole weed seeds.	5303
3.30	2-3	3.35	3-5	4 20	-----	Cracked corn, wheat, oats, barley, rye, buckwheat, Kaffir corn and sunflower seed.	5506

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5180	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Justice Chick Feed, -----	O. S. Ebersole, Penbrook,	Per ct. 13.68	Per ct. 12.06	Per ct. 11.00
5179	Domino Justice Developing Feed, ---	O. S. Ebersole, Penbrook,	14.31	11.75	10-12
5263	Domino Justice Developing Feed, ---	Lebanon Milling Co., Lebanon.	13.32	11.94	10-12
		Average, -----	13.81	11.85	-----
5181	Domino Justice Scratch Feed, -----	O. S. Ebersole, Penbrook,	13.12	11.88	10-12
5140	Fidelity Scratch Feed, -----	J. E. Dubbs, Bellefonte,--	11.61	12.56	10-12
5255	Fidelity Scratch Feed, -----	Rice & Jones, Lebanon,---	13.40	10.19	10.00
		Average, -----	12.50	11.38	-----
5178	Marathon Scratch Feed, -----	O. S. Ebersole, Penbrook,	13.60	10.50	10-12
5489	OSWEGO MILLING CO., OSWEGO, N. Y. *Pontian Scratch Feed, -----	Hockey & McCurdy, Seott- dale.	12.61	11.50	10.00
5133	THE PARK & POLLARD CO., BOSTON, MASS. Intermediate Chick Feed, -----	E. E. Wentz, Lock Haven,	11.89	10.56	10.00
4882	PRAIRIE STATE MILLING CO., CHICAGO, ILL. Garland Scratch Feed—No Grit, ----	Richey & McFarland, Car- negie.	13.46	11.31	10.00
5519	PRESTON & JACQUISH, TROY, PA. Scratch Grains, -----	Preston & Jacquish, Troy,	13.32	11.13	-----
5496	PRESTON BROTHERS MILLS, CANTON, PA. Preston's Scratch Grains, -----	Preston Brothers Mills, Canton.	13.00	10.31	8-12

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.50	Per ct. 2.00	Per ct. 1.37	Per ct. 5.00	4 50	Cracked corn, cracked wheat, milo maize, hulled oats, split green peas and millet.	Cracked corn, cracked wheat, milo maize, hulled oats and split green peas.	5180
3.08	3.00	2.35	5.00	4 50	Cracked peas, buckwheat, milo maize, wheat and cracked corn.	Cracked peas, buckwheat, milo maize, wheat, cracked corn and barley.	5179
2.80	3.00	2.35	5.00	4 10	Cracked peas, buckwheat, milo maize, wheat and cracked corn.	Cracked corn, cracked peas, milo maize, buckwheat, wheat, oats, rye, barley, spelt and small amount whole weed seeds.	5268
2.94	-----	2.35	-----	4 30			
3.25	3.00	2.57	5 00	4 40	Cracked corn, whole wheat, whole barley, milo maize, buckwheat, split green peas, sunflower seeds.	Cracked corn, wheat, milo maize, barley, buckwheat, split green peas, sunflower seed, rye and oats.	5181
3.13	3.00	3.60	5.00	4 35	Cracked corn, whole wheat, milo maize, whole barley, buckwheat, sunflower seed.	Cracked corn, wheat, milo maize, barley, buckwheat, sunflower seed and small amount whole weed seeds.	5140
3.05	3.00	2.65	5.00	4 30	Cracked corn, whole wheat, milo maize, whole barley, buckwheat and sunflower seeds.	As certified, -----	5255
3.09	-----	3.12	-----	4 33			
2.88	3.00	3.15	5.00	4 30	Wheat, milo maize, cracked corn, barley and buckwheat.	Wheat, milo, maize, cracked corn, barley, buckwheat and oats.	5178
2.65	1.50	3.62	5.00	5 25	Cracked corn, wheat barley, buckwheat, oats, Kaffir corn and milo.	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn, milo maize and small amount whole weed seeds.	5489
3.00	3.50	2.85	5.00	5 00	Cracked corn, wheat, buckwheat, oats, millet, Kaffir corn and milo.	As certified, -----	5133
3.08	2.50	2.55	5.00	4 25	Wheat, corn, Kaffir corn, barley, sunflower seed, buckwheat.	As certified, -----	4882
2.93	-----	4.95	-----	4 60	Cracked corn, wheat, oats, barley, buckwheat.	As certified, -----	5519
3.40	3-6	4.20	3-6	4 30	Cracked corn, oats, buckwheat, wheat, sunflower seed.	Cracked corn, oats, buckwheat and wheat.	5496

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4936	PURITY OATS CO. OF DAVENPORT, DAVENPORT, IOWA. Iowa Scratch Feed—No Grit, -----	W. W. McCullough, West Bridgewater.	Per ct. 13.66	Per ct. 12.06	Per ct. 10.00
5120	Tom Boy Scratch Feed—No Grit, ---	Earley & Detweiler, Palmyra.	11.65	12.19	10.00
4937	Tom Boy Scratch Feed—No Grit, ----	W. W. McCullough, West Bridgewater.	12.60	12.56	10.00
4967	Tom Boy Scratch Feed—No Grit, ----	Morrisdale Grain & Feed Co., Morrisdale.	11.50	11.81	10.00
4775	THE QUAKER OATS CO., CHICAGO, ILL. Ful-O-Pep Scratch Grains, -----	Average, -----	11.91	12.19	-----
		D. O. Christman, Weisport.	12.05	11.56	10.00
5051	*Pansy Little Chick Feed—No Grit,---	R. C. Beerits Sons, Somersct.	14.24	11.44	10.00
5142	*Pansy Little Chick Feed—With Grit,	N. J. Hockman, Bellefonte.	11.32	10.75	10.00
5053	Pansy Scratch Grains—No Grit, ----	H. C. Beerits Sons, Somersct.	12.97	11.63	10.00
5523	Pansy Scratch Grains—With Grit,---	Western Flour Co., Charleroi.	11.76	10.81	10.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.03	Per ct. 3.25	Per ct. 2.02	Per ct. 5.00	\$3 75	Cracked corn, wheat hulled oats, Kaffir corn, or milo maize, barley, buckwheat and sunflower seed.	As certified, -----	4926
3.03	2.75	2.87	5.00	4 20	Cracked corn, wheat, hulled oats, Kaffir corn, or milo maize, barley, cleaned wheat screenings, buckwheat, sunflower seed.	As certified, -----	5120
3.40	3.00	2.82	5.00	3 75	Cracked corn, wheat, hulled oats, Kaffir corn, or milo maize, barley, buckwheat and sunflower seed.	As certified, -----	4937
3.25	3.00	2.65	5.00	4 25	Cracked corn, wheat, hulled oats, Kaffir corn, or milo maize, barley, buckwheat and sunflower seed.	Cracked corn, wheat, hulled oats, Kaffir corn, milo maize, barley, buckwheat, sunflower seed and small amount small whole weed seeds.	4967
3.23	-----	2.78	-----	4 07			
1.98	2.50	2.62	5.00	4 50	Whole wheat, whole barley, whole Kaffir or milo, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds.	As certified, -----	4775
3.88	2.50	1.82	5.00	4 50	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oatmeal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oatmeal, charcoal and large amount whole weed seeds.	5051
3.50	2.50	4.60	5.00	4 00	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oatmeal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal, marble grit.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oatmeal, charcoal, marble grit and large amount whole wheat seeds.	5142
2.25	2.50	2.47	5.00	4 75	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds, whole oats.	Whole wheat, whole Kaffir corn, whole milo maize, whole barley, cracked Indian corn, whole buckwheat, whole oats, sunflower seed and small amount whole weed seeds.	5053
2.03	2.50	2.67	5.00	82 00	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds, whole oats, marble grit.	As certified, -----	5523

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
4922	*Schumacher Little Chick Feed—No Grit.	J. R. Anderson, Beaver Falls.	Per ct. 13.15	Per ct. 12.44	Per ct. 10.00
5011	*Schumacher Little Chick Feed—No Grit.	J. H. Hershberger & Son, Johnstown.	13.12	11.75	10.00
5041	*Schumacher Little Chick Feed—No Grit.	W. H. Manbeck & Co., Mifflin.	13.00	12.50	10.00
5301	*Schumacher Little Chick Feed—No Grit.	The Mandeville Co., Wilkes-Barre.	12.56	12.25	10.00
		Average, -----	12.95	12.24	-----
4810	Schumacher Scratch Grains, -----	Jos. Burkholder, Hummelstown.	11.01	11.81	10.00
4745	Schumacher Scratch Grains, -----	H. F. Gelbach, Evans City.	12.79	11.19	10.00
4705	Schumacher Scratch Grains, -----	Gohl & King, Williamsport,	12.67	12.50	10.00
		Average, -----	12.15	11.83	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.50	Per ct. 2.50	Per ct. 2.02	Per ct. 5.06	\$3 70	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oatmeal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oatmeal, charcoal and large amount whole weed seeds.	4922
3.68	2.50	2.20	5.00	4 00	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oatmeal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oatmeal, charcoal and large amount whole weed seeds.	5011
3.50	2.50	2.40	5.00	4 25	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oatmeal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oatmeal, charcoal and large amount whole weed seeds.	5041
3.83	2.50	2.35	6.00	4 25	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oatmeal, wild buckwheat (with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), charcoal, no grit, with not to exceed 1% poultry charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oatmeal, charcoal, flaxseed and large amount whole weed seeds.	5301
3.63	-----	2.24	-----	4 05			
2.35	2.50	2.57	5.00	4 50	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds.	Whole wheat, whole Kaffir corn, whole milo maize, whole barley, cracked Indian corn, whole buckwheat, sunflower seed and small amount whole weed seeds.	4310
1.46	2.50	1.75	5.00	4 60	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds.	As certified, -----	4745
1.85	2.50	2.72	5.00	4 75	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds.	Whole wheat, whole Kaffir corn, whole milo maize, whole barley, cracked Indian corn, whole buckwheat, sunflower seed and oats.	4705
1.88	-----	2.34	-----	4 42			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
5261	Schunacher Scratch Grains—With Grit.	E. Strickler's Sons, Lebanon.	Per ct. 11.41	Per ct. 10.19	Per ct. 10.00
5183	RALSTON PURINA CO., INC., ST. LOUIS, MO. Purina Chick Feed, -----	O. S. Ebersole, Penbrook,	11.26	12.00	10.00
5332	Purina Chick Feed, -----	L. L. Rice, Carlisle, -----	13.05	12.19	10.00
		Average, -----	12.15	12.10	-----
5190	Purina Pigeon Feed, -----	O. S. Ebersole, Penbrook,	13.50	16.44	11.00
5182	Purina Scratch Feed, -----	O. S. Ebersole, Penbrook,	12.30	12.19	10.00
5579	Purina Scratch Feed, -----	Wm. Gates Estate, Kittanning.	12.17	11.56	10.00
5695	Purina Scratch Feed, -----	David McMullen, Jr., Philadelphia.	11.78	10.81	10.00
5315	Purina Scratch Feed, -----	Plymouth Mill & Grain Co., Plymouth.	11.80	11.94	10.00
5280	Purina Scratch Feed, -----	Port Allegany Milling Co., Port Allegany.	11.80	11.25	10.00
		Average, -----	11.97	11.55	-----
5568	ROSENBAUM BROTHERS, CHICAGO, ILL. Vitality Scratch Feed, -----	L. Todd Owens, Apollo, --	12.03	11.81	10.00
5638	Will Pay Scratch Feed, -----	Purdy Brothers, Sewickley,	11.62	10.69	10.00
5037	SPANOGLE-YEAGER MILLING CO., LEWISTOWN, PA. *Scratch Feed, -----	Spanogle-Yeager Milling Co.	11.58	13.50	-----
5535	STRATTON-LADISH MILLING CO., MILWAUKEE, WIS. National Scratch Feed, -----	J. A. Williams, California,	12.80	11.75	9.50

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.60	Per ct. 2.50	Per ct. 2.20	Per ct. 5.00	4 00	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seed, oyster shells or marble grit 6%.	As certified, -----	5261
2.85	2.50	2.02	4.00	4 50	Wheat, corn, Kaffir, milo maize, millet.	Wheat, corn, Kaffir corn, milo maize, millet seed and oats.	5183
2.48	2.00	3.15	5.00	4 50	Wheat, corn, Kaffir, milo, millet.	Wheat, corn, Kaffir corn, milo maize and millet seed.	5332
2.67	-----	2.58	-----	4 50			
2.50	2.50	2.80	4.00	6 50	Wheat, millet, peas, Kaffir, milo.	Wheat, millet seed, peas, Kaffir corn, milo maize and oats.	5190
3.03	2.50	2.62	4.00	4 40	Wheat, corn, oats, barley, Kaffir, milo, sunflower, buckwheat.	As certified, -----	5182
2.90	2.50	2.62	5.00	4 55	Wheat, corn, barley, Kaffir, milo, buckwheat and sunflower.	As certified, -----	5379
2.98	2.50	3.22	5.00	93 00	Wheat, corn, barley, Kaffir, milo, buckwheat and sunflower.	Wheat, corn, barley, Kaffir corn, milo maize, buckwheat, sunflower seed, oats and small amount whole weed seeds.	5605
3.65	2.50	2.90	4.00	-----	Wheat, corn, barley, Kaffir, milo, buckwheat and sunflower.	Wheat, corn, barley, Kaffir corn, milo maize, buckwheat, sunflower seed, oats and small amount whole weed seeds.	5315
3.23	2.50	2.65	4.00	4 45	Wheat, corn, oats, barley, Kaffir, milo, sunflower, buckwheat.	As certified, -----	5280
3.18	-----	2.80	-----	88 00			
2.88	2.50	2.52	5.00	4 75	Wheat, sifted cracked corn, Kaffir corn, barley, oats, sunflower seed and buckwheat.	As certified, -----	5508
3.25	2.50	2.62	5.00	4 25	Wheat, sifted cracked corn, Kaffir corn, oats and sunflower seed.	Wheat, sifted cracked corn, Kaffir corn, oats, sunflower seed, barley and small amount small whole weed seeds.	5638
3.20	-----	3.60	-----	3 90	Wheat, cracked corn, oats, Kaffir corn, buckwheat, barley.	Wheat, cracked corn, oats, Kaffir corn, buckwheat, barley, and small amount small whole weed seeds.	5037
2.63	2.50	3.77	5.00	4 25	Cracked corn, wheat, barley, Kaffir corn or milo maize, buckwheat, oats.	As certified, -----	5535

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5540	Record Maker Scratch Feed—No Grit,	R. C. Mountser, Charle- roi.	Per ct. 12.13	Per ct. 10.94	Per ct. 9.50
5363	True Value Scratch Feed, -----	W. W. Davidson & Son, Ellwood City.	12.85	12.00	10.00
5023	SWOPE BROTHERS, JOHNSTOWN, PA. Banner Chick Feed, -----	Swope Brothers, Johns- town.	11.18	12.06	8.50
5022	Excelsior Chicken Feed, -----	Swope Brothers, Johns- town.	11.11	10.63	8.00
5203	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Red Ball Scratch Feed, -----	Smith Brothers Co., Ridg- way.	11.33	12.13	10.00
5296	WILKES-BARRE MILLING CO., WILKES-BARRE, PA. Red Ribbon Scratch Feed, -----	Wilkes-Barre Milling Co., Wilkes-Barre.	12.50	12.44	7-9
MASH FEEDS.					
5360	J. J. BADENOCH CO., CHICAGO, ILL. Egg-A-Day Dry Mash, -----	J. P. Morrison, Ellwood City.	10.46	19.94	18.00
4828	BLANK & GOTTSHALL, SUNBURY, PA. B. & G's Baby Chick Feed, -----	Blank & Gottshall, Sun- bury.	8.91	14.25	14.00
4827	B. & G's Mash Food, -----	Blank & Gottshall, Sun- bury.	8.32	17.13	15.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.80	Per ct. 2.50	Per ct. 3.22	Per ct. 5.00	\$4 40	Cracked corn, wheat, barley, Kaffir corn or milo maize, oats, buckwheat, sunflower seed.	Cracked corn, wheat, barley, Kaffir corn, milo maize, oats and buckwheat.	5540
2.65	2.50	2.87	5.00	4 25	Cracked corn, wheat, barley, Kaffir corn or milo maize, buckwheat, sunflower seed, oats.	As certified, -----	5363
3.00	3.00	1.72	5.00	5 25	Wheat, corn, Kaffir corn, grit.	As certified, -----	5023
2.45	2.00	3.20	8.00	4.15	Corn, Kaffir corn, buckwheat, wheat, oats, barley, sunflower seed, milo maize, grit, oyster shells.	Corn, buckwheat, wheat, oats, barley, sunflower seed, grit and oyster shells.	5022
3.35	2.50	3.72	5.00	4 25	Cracked corn, whole wheat, Kaffir corn, barley, oats, buckwheat and sunflower seed.	Cracked corn, whole wheat, Kaffir corn, barley, oats, buckwheat, sunflower seed and small amount whole weed seeds.	5203
2.78	2-3	3.20	4-6	3 70	Sunflower seed, cracked corn, Kaffir corn, wheat, buckwheat, barley, oyster shell.	Cracked corn, Kaffir corn, wheat, buckwheat, barley and oyster shells.	5296
5.20	3.00	8.77	11.00	4 60	Ground oat meal, buckwheat, corn, wheat, milo maize, barley, wheat bran with screenings not exceeding mill run, wheat middlings, alfalfa, meat, bone, fish, salt, calcium carbonate (limestone).	As certified, -----	5360
4.18	4.00	3.30	4.00	96 00	Wheat bran, wheat midds, shredded wheat, corn meal, hulled oats, ground Hen-E-Ta bone, meat meal, bone flour, ground blood, charcoal, German fennel seed, French gentian root, foenugreek seed, Spanish licorice root.	Wheat bran, wheat middlings, shredded wheat, corn meal, hulled oats, ground Hen-E-Ta bone grit, linseed oil meal, meat meal, bone flour, ground blood, charcoal, German fennel seed and foenugreek.	4828
3.80	4.00	4.37	5.00	72 00	Corn meal, midds, bran, gluten meal, pea meal, alfalfa meal, fish scrap, meat meal, Hen-E-Ta.	As certified, -----	4827

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4724	BLATCHFORD CALF MEAL CO., WACKEGAN, ILL. Blatchford's Bar Nun Laying Mash,	H. J. Klingler & Co., But- ler.	Per ct. 7.91	Per ct. 22.50	Per ct. 20.00
5769	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Egg Mash, -----	Duncannon Flouring Mill Co., Duncannon.	9.10	21.38	18.00
5163	DANVILLE MILLING CO., DAN- VILLE, PA. *The Great Newly Prepared Egg Pro- ducer.	Danville Milling Co., Dan- ville.	10.38	24.56	25.00
5543	DAYTON MILLING CO., TO- WANDA, PA. Dayton's Laying Mash, -----	Dayton Milling Co., To- wanda.	9.11	21.50	12-15
4708	Dayton's Laying Mash, -----	Gohl & King, Williamsport,	10.29	25.94	12-15
		Average, -----	9.70	23.75	-----
4738	THE ALBERT DICKINSON CO., CHICAGO, ILL. Globe Egg Mash, -----	Thompson & Glenn, But- ler.	10.79	20.63	15.00
5758	DIEHL, OMWAKE & DIEHL, CHAMBERSBURG, PA. Mak-Em-Lay Dry Mash Feed, -----	Diehl, Omwake & Diehl, Chambersburg.	11.07	22.38	20.00
5513	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Blue Ribbon Laying Mash, -----	F. P. Case & Son, Troy,	12.37	20.94	20.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.50	Per ct. 5.00	Per ct. 7.77	Per ct. 8.00	\$5 55	Meat scrap, fish scrap, wheat bran, alfalfa meal, corn feed, coconut meal, cocoa shells, bone meal, oat meal, powdered limestone and salt.	As certified, -----	4724
6.78	4.00	8.72	12.00	4 50	Linseed meal, oat middlings, meat meal, corn feed meal, wheat bran and wheat middlings with screenings not exceeding mill run, alfalfa meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	5709
5.65	5.31	6.80	5.73	4 00	Corn meal, middlings, bran, alfalfa, oil meal, beef scrap, $\frac{1}{4}$ of 1% salt.	As certified, -----	5163
6.53	3-5	7.07	6-9	4 20	Gluten, middlings, corn meal, bran, ground oats, oil meal, alfalfa and Hen-E-Ta bone grits, buckwheat feed.	Corn gluten feed, wheat middlings, corn meal, wheat bran, ground oats, linseed oil meal and alfalfa meal.	5543
5.35	3-5	7.05	6-9	4 00	Gluten, middlings, corn meal, bran, ground oats, oil meal, alfalfa and Hen-E-Ta bone grits, buckwheat feed.	Corn gluten feed, wheat middlings, corn meal, wheat bran, ground oats, linseed oil meal and buckwheat feed.	4706
5.94	-----	7.06	-----	4 10			
4.98	3.00	6.00	10.00	4 00	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, meat scraps, salt $\frac{1}{2}$ of 1%.	As certified, -----	4738
5.45	3.50	7.22	10.00	4 50	Wheat, corn, oats, alfalfa, cottonseed, flaxseed, carob beans, aniseed, foenugreek, beans and lentils, cocoa meal, oil meal, gluten, beef scrap.	Ground wheat, corn, oats, alfalfa meal, cottonseed meal, flaxseed, aniseed, foenugreek, beans, lentils, cocoa shell meal, linseed oil meal, corn gluten feed and beef scrap.	5758
3.43	3.00	8.02	10.00	3 60	Wheat bran, wheat middlings, red dog flour, corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal, ground bone and pea meal.	Wheat bran, wheat middlings, wheat red dog flour, corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal and ground bone.	5511

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5249	Blue Ribbon Laying Mash, -----	Emporium Milling Co., Emporium.	Per ct. 11.61	Per ct. 20.94	Per ct. 20.00
5370	Blue Ribbon Laying Mash, -----	L. A. Fischer & Co., Bradford.	12.74	20.50	20.00
4964	Blue Ribbon Laying Mash, -----	Morrisdale Grain & Feed Co., Morrisdale.	9.86	22.38	20.00
5319	Blue Ribbon Laying Mash, -----	Standard Feed Co., Wilkes- Barre.	10.29	22.69	20.00
		Average, -----	11.37	21.49	-----
5735	HALES & EDWARDS CO., CHI- CAGO, ILL. Red Comb Mash Feed with Dried But- termilk and Shell.	Hetrick, Wilson & Co., In- diana.	9.25	24.06	15.00
5005	Red Comb Mash Feed with Dried But- termilk and Shell.	Geo. Renton & Co., Castle Shannon.	10.24	20.50	15.00
4768	Red Comb Mash Feed with Dried But- termilk and Shell.	Stemler Brothers, East Mauch Chunk.	10.52	22.41	15.00
5217	Red Comb Mash Feed with Dried But- termilk and Shell.	Timlin-Kelly Co., DuBois.	9.94	20.63	15.00
		Average, -----	9.98	21.90	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.20	Per ct. 3.00	Per ct. 7.55	Per ct. 10.00	\$4 00	Wheat bran, wheat middlings, red dog flour, corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal, ground bone and pea meal.	As certified, -----	5249
4.95	3.00	7.20	10.00	4 00	Wheat bran, wheat middlings, red dog flour, corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal, ground bone, pea meal, salt $\frac{3}{4}$ of 1%.	Wheat bran, wheat middlings, wheat red dog flour, corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal, ground bone and salt.	5370
5.10	3.00	8.12	10.00	3 25	Wheat bran, wheat middlings, red dog flour, corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal, ground bone and pea meal.	As certified, -----	4964
5.15	3.00	8.37	10.00	4 20	Wheat bran, wheat middlings, red dog flour, corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal, ground bone, pea meal, salt $\frac{3}{4}$ of 1%.	As certified, -----	5319
4.77	-----	7.85	-----	3 81			
6.18	4.00	5.77	9.00	4 75	Dried buttermilk, linseed oil meal, corn feed meal, meat scraps, wheat bran, wheat middlings, ground oats, alfalfa meal and not over 5% shell.	As certified, -----	5735
6.10	4.00	6.02	9.00	82 00	Dried buttermilk, linseed oil meal, corn feed meal, meat scraps, wheat bran, wheat middlings, ground oats, alfalfa meal and not over 5% shell.	As certified, -----	5065
4.68	4.00	7.22	10.00	4 35	Dried buttermilk, linseed oil meal, corn feed meal, meat scraps, wheat bran, wheat middlings, ground oats, alfalfa meal and not over 5% shell.	As certified, -----	4768
5.50	4.00	7.60	9.00	4 20	Dried buttermilk, linseed oil meal, corn feed meal, meat scraps, wheat bran, wheat middlings, ground oats, alfalfa meal and not over 5% shell.	As certified, -----	5217
5.36	-----	6.65	-----	87.00			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5476	THE HEX MILLING CO., SHAMOKIN, PA. Poultry Mash, -----	The Hex Milling Co., Shamokin.	Per ct. 10.72	Per ct. 17.63	Per ct. 15.00
5236	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Laying Mash, -----	Adler Brothers, Altoona,--	8.93	19.25	18.00
5232	H. H. LANGDON, ALTOONA, PA. Langdon's Poultry Mash, -----	H. H. Langdon, Altoona,	9.35	21.88	14-17
5269	LEBANON MILLING CO., LEBANON, PA. Blue Ribbon Quality Mash Feed, -----	Lebanon Milling Co., Lebanon.	11.64	13.75	15.00
5305	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Poultry Mash, -----	Miner-Hillard Milling Co., Plymouth.	9.92	14.44	13.00
4764	Poultry Mash, -----	John G. Seager's Sons, Hazleton.	10.25	15.00	13.00
		Average, -----	10.08	14.72	-----
5682	NICKEL PLATE FLOUR MILLS, ERIE, PA. Poultry Mash, -----	Nickel Plate Flour Mills, Erie.	9.81	15.63	-----
4849	THE PARK & POLLARD CO., CHICAGO, ILL. Lay or Bust Dry Mash, -----	Irwin Flour Mills, Irwin, --	10.61	19.56	18.00
5393	Lay or Bust Dry Mash, -----	Oil City Milling Co., Oil City.	10.61	22.19	18.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.78	Per ct. 3.75	Per ct. 6.67	Per ct. 7.50	\$4 50	Wheat bran, corn meal, ground oats, gluten, middlings, beef scrap, alfalfa meal.	Wheat bran, corn meal, ground oats, corn gluten feed, wheat middlings and beef scrap.	5476
5.10	3.50	6.52	10.00	4 60	Wheat bran, wheat middlings, maize red dog flour, corn feed meal, alfalfa meal, meat scraps, corn germ meal and hominy feed.	As certified, -----	5236
6.18	3-5	7.27	7-9	4 00	Wheat bran, wheat middlings, corn meal, oil meal, beef scraps, gluten and $\frac{1}{2}$ of 1% salt.	As certified, -----	5232
5.48	4.00	6.70	8.00	3 85	Oat meal, oil meal, corn meal, beef scrap, wheat bran, wheat middlings, alfalfa meal and not over 5% shell, 1% charcoal.	As certified, -----	5269
4.38	4.00	7.70	10.00	4 00	Ground peas, alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings, ground oats.	As certified, -----	5305
5.25	4.60	8.15	10.00	4 00	Ground peas, alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings, ground oats.	Alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings and ground oats.	4764
4.82	-----	7.92	-----	4 60			
3.80	-----	11.00	-----	3 50	Corn meal, wheat bran, wheat shorts, gluten feed, oil meal, meat scraps, ground oats, charcoal, alfalfa meal and oyster shells.	As certified, -----	5682
3.90	1.50	8.02	12.00	4 00	Ground commercial wheat bran, commercial wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	Ground: Wheat bran, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, calcium carbonate and salt.	4849
4.36	1.50	9.05	12.00	4 00	Ground corn, wheat bran, commercial wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	Ground: Corn, wheat bran, wheat middlings, wheat, oats, barley, buckwheat, alfalfa, fish, meat, bone, corn bran and siftings, rye middlings, calcium carbonate and salt.	5393

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5590	Lay or Bust Dry Mash, -----	Warren City Mills, Warren.	Per ct. 9.81	Per ct. 21.69	Per ct. 18.00
		Average, -----	10.34	21.15	-----
5024	M. C. PETERS MILL CO., OMAHA, NEB. Peters' Red Feather Mash Poultry Feed.	Swope Brothers, Johnstown.	10.60	27.06	-----
5518	PRESTON & JACQUISH, TROY, PA. Hen Mash, -----	Preston & Jacquish, Troy,	10.23	15.69	-----
4856	J. E. PRITTS, SCOTTDALE, PA. *Pritts' Dry Mash, -----	J. E. Pritts, Scottsdale, ---	10.55	27.38	22-26
5466	PURITY OATS CO. OF DAVENPORT, DAVENPORT, IOWA. Tom Boy Poultry Mash, -----	E. C. Noll, Lewisburg, ---	8.11	17.44	15.00
4774	THE QUAKER OATS CO., CHICAGO, ILL. Ful-O-Pep Dry Mash, -----	D. O. Christman, Weissport.	8.95	22.19	20.00
5017	Ful-O-Pep Dry Mash, -----	J. H. Hershberger & Son, Johnstown.	9.20	23.44	20.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.98	Per ct. 1.50	Per ct. 10.60	Per ct. 12.00	\$4 15	Ground wheat bran with mill run of screenings, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	Ground: Wheat bran with mill run screenings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, dried beet pulp, flax screenings, calcium carbonate and salt.	5590
4.68	-----	9.22	-----	4 05			
4.68	-----	6.92	-----	4 50		Corn feed meal, ground oats, ground barley, wheat bran, wheat middlings, linseed oil meal, meat meal and alfalfa meal.	5024
2.53	-----	2.70	-----	3 90	Beef scrap, corn meal, wheat bran, barley flour, Hen-E-Ta.	As certified, -----	5518
5.00	5-7	5.77	9.00	4 10	Beef scraps, alfalfa meal, cottonseed meal, corn, oats, charcoal, wheat bran and wheat middlings, trace of oyster shell.	As certified, -----	4856
3.88	4.00	11.42	10.00	3 90	Meat, wheat, oat meal, wheat middlings, mlo m a i z e, buckwheat, corn meal, barley, oat middlings, millet, gluten feed, Kaffir corn, alfalfa meal, hominy feed, wheat bran, oat germ meal, rock phosphate, salt, calcium carbonate and charcoal.	Meat, wheat, oat meal, wheat middlings, corn meal, barley, oat middlings, corn gluten feed, alfalfa meal, hominy feed, wheat bran, oat germ meal, rock phosphate, calcium carbonate, charcoal and salt.	5466
5.65	4.00	9.12	10.00	4 50	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran (with ground screenings not exceeding mill run), bone meal, yellow hominy feed, cottonseed meal, hominy feed, corn gluten feed, ground grain screenings.	As certified, -----	4774
5.90	4.00	8.95	10.00	4 25	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran (with ground screenings not exceeding mill run), bone meal, yellow hominy feed, cottonseed meal, hominy feed, corn gluten feed, ground grain screenings.	Meat scrap, fish meal, oat meal, alfalfa meal, wheat bran with mill run ground screenings, bone meal, cottonseed meal, yellow hominy feed, hominy feed, corn gluten feed, ground grain screenings and small amount whole weed seeds.	5017

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5703	Ful-O-Pep Dry Mash, -----	W. H. Kepner, Newport,--	Per ct. 8.56	Per ct. 22.38	Per ct. 20.00
5487	Ful-O-Pep Dry Mash, -----	J. B. Roux, Farrell, ----	9.58	23.69	20.00
5274	Ful-O-Pep Dry Mash, -----	C. F. & W. H. Strickler Milling Co., Lebanon.	9.70	22.60	20.00
4898	Ful-O-Pep Dry Mash, -----	Walton Brothers, Philadel- delphia.	9.00	22.19	20.00
5184	RALSTON PURINA CO., ST. LOUIS, MO.	Average, -----	9.16	22.76	-----
	Purina Chicken Chowder, with Char- coal not over 1%.	O. S. Ebersole, Penbrook.	10.62	22.75	19.00
5580	Purina Chicken Chowder, with Char- coal not over 1%.	Wm. Gates Estate, Kit- tanning.	10.05	19.88	19.00
5606	Purina Chicken Chowder, with Char- coal not over 1%.	David McMullin, Jr., Philadelphia.	9.63	20.00	19.00
5279	Purina Chicken Chowder, with Char- coal not over 1%.	Port Allegany Milling Co., Port Allegany.	11.02	20.50	19.00
		Average, -----	10.33	20.78	-----

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.58	Per ct. 4.60	Per ct. 9.27	Per ct. 10.00	\$4 50	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran (with ground screenings not exceeding mill run), bone meal, yellow hominy feed, cottonseed meal, hominy feed, corn gluten feed, ground grain screenings.	As certified, -----	5706
5.95	4.00	6.92	10.00	4 75	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran (with ground screenings not exceeding mill run), corn meal, cottonseed meal, yellow hominy feed, hominy feed, corn gluten feed, ground grain screenings.	As certified, -----	5437
5.30	4.00	8.87	10.00	4 50	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran (with ground screenings not exceeding mill run), bone meal, cottonseed meal, yellow hominy feed, hominy feed, corn gluten feed and ground grain screenings.	As certified, -----	5274
5.73	4.00	8.30	10.00	73 50	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran (with ground screenings not exceeding mill run), bone meal, cottonseed meal, yellow hominy feed, hominy feed, corn gluten feed and ground grain screenings.	As certified, -----	4898
5.85	-----	8.57	-----	87 25			
4.50	4.00	8.42	9.00	4 50	Wheat bran, wheat middlings, gluten feed, corn meal, alfalfa flour, linseed flour, granulated meat and not over 1% salt.	Wheat bran, wheat middlings, corn gluten feed, corn meal, alfalfa flour, linseed oil meal, granulated meat, charcoal and salt.	5184
3.85	4.00	9.02	9.00	4 35	Wheat bran, wheat middlings, gluten feed, corn meal, alfalfa flour, linseed flour, granulated meat and not over 1% salt.	Wheat bran, wheat middlings, corn gluten feed, corn meal, alfalfa flour, linseed oil meal, granulated meat and salt.	5580
4.28	4.00	8.97	10.00	88 00	Charcoal not over 1%, wheat middlings, wheat bran, corn meal, alfalfa flour, linseed meal, granulated meat, not over 1% salt.	Wheat middlings, wheat bran, corn meal, alfalfa flour, linseed oil meal, hominy feed, granulated meat, charcoal and salt.	5606
4.03	4.00	8.05	9.00	4 25	Wheat middlings, wheat bran, corn meal, not over 1% salt, alfalfa meal, linseed meal, granulated meat, charcoal.	As certified, -----	5279
4.17	-----	8.61	-----	87 50			

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5186	Purina Chicken Fatena Feed, -----	O. S. Ebersole, Penbrook,	8.79	15.81	9.00
5039	JOHN T. RODGERS, McVEYTOWN, PA. *Hen-O-La Mash Food, -----	John T. Rodgers, McVeytown.	9.50	13.31	10.00
5637	ROSENBAUM BROTHERS, CHICAGO, ILL. Vitality Egg Mash with Milk Albumen.	Purdy Brothers, Sewickley.	9.08	19.13	18.00
5582	RYDE & COMPANY, CHICAGO, ILL. *Ryde's Egg Mash, -----	Swanson Grocery Co., Kane.	10.38	21.25	20.00
5629	*Ryde's Milk Mash for Young Chicks,	Lewistown Ice & Storage Co., Lewistown.	10.25	22.75	20.00
5073	THE SHEETS ELEVATOR CO., CLEVELAND, OHIO. Conkey's Buttermilk Starting Feed,	Johnston & Hamilton, Parnassus.	10.66	13.38	12.00
5376	SMITH BROTHERS, BRADFORD, PA. Egg Mash, -----	Smith Brothers, Bradford,	11.92	15.44	12.00
4754	TIOGA MILL & ELEVATOR CO., WAVERLY, N. Y. Ti-O-Ga Growing Mash, -----	G. W. Engle, Hazleton,--	10.14	16.56	12.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
7.58	5.00	5.40	9.00	\$4 60	Ground corn, Kaffir meal, barley meal, corn gluten meal, wheat middlings, linseed meal and ground sunflower seed.	Ground corn, Kaffir corn meal, barley meal, corn gluten meal, wheat middlings and linseed oil meal.	5186
2.23	2.00	3.75	4.00	3 50	Corn meal, gluten meal, wheat middlings, wheat bran, oil meal, Hen-E-Ta.	As certified, -----	5039
4.15	4.00	8.57	10.00	4 00	Milk albumen, meat scraps, O. P. linseed oil meal, corn feed meal, wheat bran and wheat middlings, ground oats, alfalfa meal, bone meal, 6% calcium carbonate and ground barley.	As certified, -----	5627
4.40	4.00	11.67	9.00	4 25	Linseed oil meal, meat scraps, corn feed meal, bran, middlings, alfalfa, bone meal, cottonseed meal, blood flour, ground beans and peas, cocoa shell meal, oatmeal, coconut meal, fish, dried milk, foenugreek, anise and salt.	Linseed oil meal, meat scrap, corn feed meal, wheat bran, wheat middlings, alfalfa meal, bone meal, cottonseed meal, blood flour, ground beans and peas, cocoa shell meal, oatmeal, fish, dried milk, foenugreek, anise and salt.	5580
5.00	5.00	7.40	7.00	5 20	Wheat flour, locust bean meal, ground beans and lentils, blood flour, ground flaxseed, recleaned cottonseed meal, cocoa shell meal, hominy feed, wheat middlings, alfalfa meal, corn meal, meat scraps, bone meal, oat meal, dried milk, foenugreek, anise, salt.	Wheat flour, ground beans and lentils, blood flour, ground flax seed, recleaned cottonseed meal, hominy feed, wheat middlings, alfalfa meal, corn meal, oatmeal, meat scrap, bone meal, dried milk, foenugreek, aniseed, cocoa shell meal and salt.	5020
3.60	3.00	2.95	4.00	8 00	Hulled oats, corn meal, corn feed meal, wheat middlings, wheat, bone and buttermilk.	As certified, -----	5673
3.65	3.00	8.55	12.00	4 00	Corn meal, brown middlings, red-dog flour, alfalfa meal, oat meal, bran and charcoal.	As certified, -----	5374
4.60	2.00	5.55	6.00	3 60	Wheat middlings, hominy feed, old process linseed oil meal, wheat bran, corn feed meal, Kaffir corn meal, phosphate of lime, corn gluten meal, corn gluten feed.	Wheat middlings, hominy feed, old process linseed oil meal, wheat bran, corn feed meal, corn gluten meal, corn gluten feed, ground grain screenings and phosphate of lime.	4754

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5043	THE UBIKO MILLING CO., CINCINNATI, OHIO. Ubiko Buttermilk Egg Mash, -----	J. F. Malone, Sewickley,	Per ct. 9.07	Per ct. 22.44	Per ct. 19.00
5069	R. W. WERTZ, WERNERSVILLE, PA. Laying Mash, -----	R. W. Wertz, Wernersville.	10.17	18.31	-----
5409	F. S. WERTZ & SON, READING, PA. Liberty Standard Laying Mash, ----	F. S. Wertz & Son, Reading.	10.02	22.38	18.00
ANIMAL BY-PRODUCTS.					
MEAT AND BONE SCRAP.					
4837	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y. Protox Pure Ground Meat Scraps,--	McFarland Supply Co., Greensburg.	8.22	56.00	55.00
5020	Protox Pure Ground Meat Scraps,--	Weaver & Berkey, Windber.	6.71	55.00	56.00
5474	THE ANIMAL PRODUCTS CO., PHILADELPHIA, PA. The Apco Poultry Meat, -----	Average, ----- Shamokin Milling Co., Shamokin.	7.40 6.16	55.53 43.13	----- 40.00
4770	The Apco Poultry Meat, -----	Stemler Brothers, East Mauch Chunk. Average, -----	6.20 6.18	43.94 43.54	40.00 -----
5092	ARMOUR FERTILIZER WORKS, BALTIMORE, MD. Armour's Meat Meal, -----	Washington Milling Co., Washington.	11.71	67.50	60.00
5550	THE BERG CO., PHILADELPHIA, PA. Berg's 3 Medal Poultry Meat, -----	F. H. Hagerman, Towanda.	5.97	40.33	40.00
4032	BRAUN RENDERING CO., NEW BRIGHTON, PA. Braun's Meat & Bone Scrap, -----	W. W. McCullough, West Bridgewater.	6.42	38.64	-----
4711	CONSOLIDATED DRESSED BEEF CO., PHILADELPHIA, PA. Consolidated Beef and Bone Scraps,	F. W. Dawson & Son, Williamsport.	6.47	48.13	45-50
5347	Consolidated Beef and Bone Scraps,	Fred L. Lemont, Philadelphia.	7.77	65.00	45-50
5256	Consolidated Beef and Bone Scraps,	Rice & Jones, Lebanon,--	6.32	46.13	45-50
5721	Consolidated Beef and Bone Scraps,	Tyrone Milling Co., Tyrone.	6.53	46.31	45-50
		Average, -----	6.77	51.89	-----
5372	JACOB DOLD PACKING CO., BUFFALO, N. Y. Dold Quality Meat and Bone Scraps,	L. A. Fischer & Co., Bradford.	8.33	48.81	45.00
4729	Dold Quality Meat and Bone Scraps,	P. J. Oesterling & Son, Butler.	6.97	57.51	50.00

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.10	3.00	5.50	6.00	\$4 90	Wheat meal, bone meal, corn meal, wheat bran and middlings, whole ground oats, gluten feed, O. P. linseed meal and dried buttermilk.	As certified, -----	5042
5.30	-----	9.17	-----	3 75	Corn chop, oats chop, wheat middlings, wheat bran alfalfa meal and beef scrap.	As certified, -----	5609
4.58	2.50	7.17	6.00	4 50	Wheat bran, wheat middlings, gluten feed, corn feed meal, ground oats, bone meal, fish scrap, O. P. linseed meal.	As certified, -----	5499
11.50	10.00	1.12	-----	6 00	-----	Meat scrap, -----	4837
13.08	10.00	2.12	-----	6 25	-----	Meat scrap, -----	5020
12.29	-----	1.62	-----	6 13	-----	-----	-----
13.58	11.00	3.00	3.00	5 00	Meat and bone scrap,--	As certified, -----	5474
14.00	11.00	1.37	3.00	6 00	Meat and bone scrap,--	As certified, -----	4770
13.79	-----	2.18	-----	5 50	-----	-----	-----
7.95	6.00	0.97	2.00	5 70	-----	Meat meal, -----	5602
15.28	11.00	1.90	3.00	4 60	-----	Meat scrap, -----	5558
29.78	-----	0.83	-----	4 50	Meat and bone scraps,--	As certified, -----	4932
12.40	12.00	0.90	2.00	6 50	-----	Beef and bone scrap,--	4711
16.15	12.00	0.75	2.00	5 50	-----	Beef and bone scrap,--	5247
11.88	12.00	0.90	2.00	4 90	-----	Beef and bone scrap,--	5256
11.75	12.00	1.42	2.00	90 00	-----	Beef and bone scrap,--	5721
13.05	-----	6.99	-----	107 00	-----	-----	-----
12.20	8.00	1.10	5.00	5 50	-----	Meat and bone scrap,--	5672
13.68	8.00	1.70	5.00	6 00	-----	Meat and bone scrap,--	4730

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
5377	Dold Quality Meat and Bone Scraps,	Smith Brothers, Bradford,	Per ct. 8.41	Per ct. 58.75	Per ct. 50.55
	THE ENTERPRISE TALLOW AND GREASE CO., PHILADELPHIA, PA.	Average, -----	7.69	58.28	-----
5471	Beef Scrap, -----	Shamokin Milling Co., Shamokin.	6.95	51.31	47.00
4817	HAFLEIGH RENDERING CO., PHILADELPHIA, PA.	Buffalo Flour Mills, Milton.	6.21	38.63	40.00
5467	Quaker City Special Brand Meat & Bone Scraps.	Preston Brothers' Mills, Canton.	7.14	40.63	40.60
5260	Quaker City Special Brand Meat & Bone Scraps.	E. Strickler's Sons, Lebanon.	6.56	39.31	40.00
		Average, -----	6.63	39.52	-----
5547	SWIFT & CO., NEWARK, N. J. Swift's Eureka Meat Scraps, -----	Dayton Milling Co., Towanda.	7.28	56.25	55.00
4833	THE VAN DERSTINE CO., LONG ISLAND CITY, N. Y. Darling's High Protein Meat Scraps for Poultry.	Blank & Gottshall, Sunbury.	6.19	56.75	55.00
	TANKAGE.	Total average, -----	7.12	49.67	-----
5555	THE BERG CO., PHILADELPHIA, PA. *Berg's Digester Tankage, -----	F. H. Hagerman, Towanda.	5.57	35.94	40.00
5076	DARLING & CO., CHICAGO, ILL. Darling's 60% Digester Tankage, ---	Johnston & Hamilton, Parnassus.	9.39	62.69	60.00
5687	JACOB DOLD PACKING CO., BUFFALO, N. Y. Dold Quality Digester Tankage, ---	Erie Milling & Supply Co., Erie.	9.91	66.31	60.00
5134	Dold Quality Digester Tankage, ---	E. E. Wentz, Lock Haven,	10.40	69.88	60.00
		Average, -----	10.15	68.10	-----
4912	FARMERS' FERTILIZER, SEED & HIDE CO., WOMELSDORF, PA. Hog Tankage, -----	Francis Baker, Everett, --	12.51	30.75	30.00
5492	HAFLEIGH RENDERING CO., PHILADELPHIA, PA. Digester Meat & Bone Tankage, ---	E. C. Noll, Lewisburg, --	5.37	45.44	50.00
4716	D. B. MARTIN CO., PHILADELPHIA, PA. Martin's Digester Tankage, -----	S. Book & Brother, Quarryville.	8.91	49.50	40.00
5490	PARK & POLLARD CO., BOSTON, MASS. *Tankage, -----	Hockey & McCurdy, Scottsdale.	10.27	52.06	-----
5052	J. D. RAMSEY, PITTSBURGH, PA. Meat Meal Tankage, -----	H. C. Beerits Sons, Somerseset.	4.40	23.94	34.30
5156	ROBERT A. REICHARD, ALLENTOWN, PA. Reichard's 40% Meat & Bone Tank-	Haney-Frazier Milling & Elevator Co., Riverside.	7.52	48.94	40.00

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.05	Per ct. 8.00	Per ct. 1.37	Per ct. 5.00	\$6 25	Scraps of meat cooked dried.	As certified, -----	5377
10.32	-----	1.53	-----	6 18			
15.80	13.00	2.12	2.00	5 00	-----	Beef scrap, -----	5471
14.33	10.00	0.97	2.00	7 00	-----	Meat and bone scrap, --	4817
15.33	10.00	1.60	2.00	6 00	-----	Meat and bone scrap, --	5497
18.48	10.00	0.80	2.00	5 50	-----	Meat and bone scrap, --	5260
10.05	-----	1.12	-----	6 17			
10.25	6.00	1.50	3.00	5 70	-----	Meat scrap, -----	5547
12.23	5.00	1.67	3.00	115 60	-----	Meat scrap, -----	4833
13.83	-----	1.40	-----	5 61			
16.30	10.00	4.10	5.00	4 60	-----	Digester tankage, ----	5555
6.33	0.50	2.12	3.00	6 60	Meat product, -----	As certified, -----	5076
5.80	8.00	2.45	5.00	5 25	-----	Digester tankage, ----	5687
7.20	5.00	2.65	5.00	6 00	-----	Digester tankage, ----	5134
6.50	-----	2.55	-----	5.63			
8.70	10.00	4.85	10.00	4 50	-----	Digester tankage, ----	4912
18.40	10.00	1.80	2.00	4.25	-----	Blood, meat and bone, --	5462
8.43	10.00	2.05	2.00	5 25	-----	Digester tankage, ----	4716
6.50	-----	2.02	-----	5 75	-----	Digester tankage, ----	5490
10.90	12-14	3.65	-----	3 50	-----	Meat meal tankage, ----	5052
11.48	10.00	4.02	6.00	5 00	-----	Meat and bone tankage.	5156

TABLE III.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled From	Moisture.	Protein.	
				Found.	Guaranteed.
	D. W. ROMBERBER, ELIZABETH-TOWN, PA.				
5177	*Tankage, -----	D. W. Romberger, Elizabethtown.	Per ct. 7.42	Per ct. 44.63	-----
	THE VAN IDERSTINE CO., LONG ISLAND CITY, N. Y.				
4834	Darling's 60% Protein Digester Tankage.	Blank & Gottshall, Sunbury.	6.83	64.00	60.00
	WILSON & COMPANY, WHEELING, W. VA.				
5655	*Red Brand Protein Tankage, -----	Washington Grain & Feed Co., Washington.	6.43	44.56	55.00
	POULTRY BONE.	Total average, -----	8.07	49.52	-----
	ROBERT A. REICHARD, ALLENTOWN, PA.				
5411	Reichard's Bone Granules, -----	F. S. Wertz & Son, Reading.	6.63	28.38	25-50
	THE VAN IDERSTINE CO., LONG ISLAND CITY, N. Y.				
4835	Darling's Granulated Bone for Poultry.	Blank & Gottshall, Sunbury.	6.55	27.25	20.00
4832	Darling's Raw Bone Meal for Poultry.	Blank & Gottshall, Sunbury.	8.72	26.13	20.00
		Average, -----	7.30	27.25	-----

*Not registered.

FEEDING STUFFS COLLECTED IN 1919—Concluded.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
15.09		3.61		\$4 00		Tankage, -----	5177
6.85	1.00	2.97	3.00	130 00		Digester tankage, ----	4834
15.95	8.00	2.17	5.00	5 15		Tankage, -----	5655
10.61		2.95		5 06			
2.75	4-5	1.42	2-3	4 25		Cracked bone, ----	5411
6.30	2.00	0.30	3.00	90 00		Granulated bone, ----	4635
0.33	2.00	0.20	3.00	90 00		Bone meal, -----	4832
3.13		6.64		88 33			

